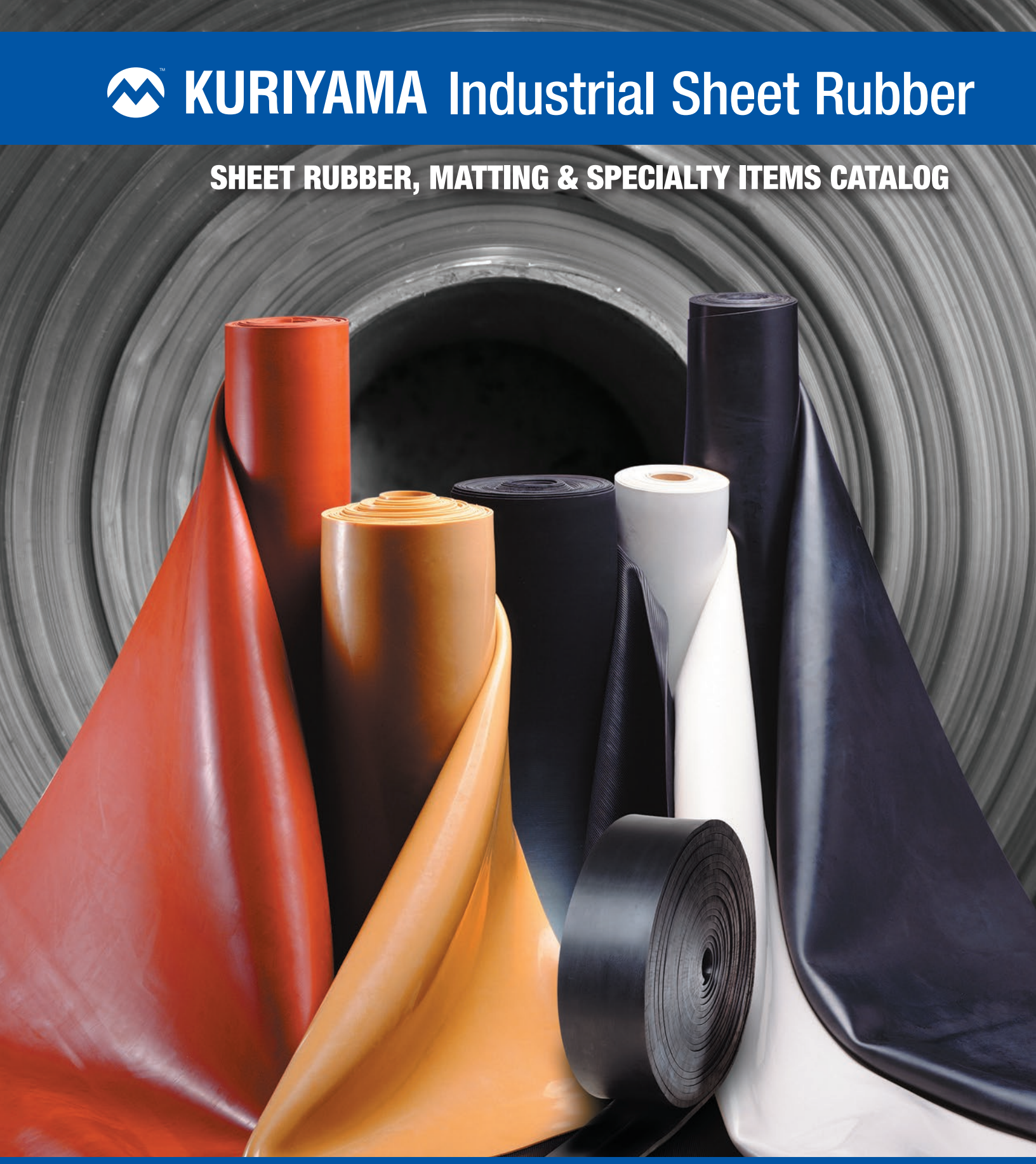
KURIYAMA Industrial Sheet Rubber

SHEET RUBBER, MATTING & SPECIALTY ITEMS CATALOG



KURIYAMA
OF AMERICA, INC.

Certified to
ASTM D 2000
Specifications

NAHAD
THE ASSOCIATION FOR HOSE AND ACCESSORIES DISTRIBUTION

EDITION 0320

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Minimum Order – *Full rolls only*

Sheet rubber and corrugated matting products are sold in full rolls only. These rolls are usually in one piece, but may contain a maximum of two pieces per ASTM D1330. The average weight per roll and linear feet per roll yield figures shown in this catalog are conservative minimums. Actual yield may vary upwards. All rolls are billed at the listed average linear ft./roll shown in our separate price list.

Contact KOA for widths & lengths not shown

847-755-0360

sales@kuriyama.com

General Properties of Neoprene†

- Good weather-resistance
- Moderate resistance to petroleum-based fluids
- Good physical properties.

† Properties shown based on Rubber Manufacturers Association Sheet Rubber Handbook, second edition.

SPECIFICATIONS:

Commercial grade black neoprene sheet, available in five styles:

Style N40: 40 Duro hardness (Shore Durometer A)
Style N50: 50 Duro hardness (Shore Durometer A)
Style N60: 60 Duro hardness (Shore Durometer A)
Style N70: 70 Duro hardness (Shore Durometer A)
Style N80: 80 Duro hardness (Shore Durometer A)

Polymer: Chloroprene
Common Name: Neoprene
ISO/ASTM Designation: CR
Talc Free

Style	ASTM Specification (SI units)	Temp. Range	Durometer	Tensile Strength (psi)	Elongation (%)	Finish
N40	D 2000 M2BC 407 A14 B14 F17	-20°F to +180°F	35 - 45	1015	400%	Plate
N50	D 2000 M2BC 507 A14 B14 F17	-20°F to +180°F	45 - 55	1015	300%	Plate
N60	D 2000 M2BC 607 A14 B14 F17	-20°F to +180°F	55 - 65	1015	300%	Plate
N70	D 2000 M2BC 707 A14 B14 F17	-20°F to +180°F	65 - 75	1015	200%	Plate
N80	D 2000 M2BC 807 A14 B14 F17	-20°F to +180°F	75 - 85	1015	100%	Plate

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Avg. Length (Linear ft/Roll)	Approx. lbs/Roll
N40-02x36x67	1/16 x 36	67	96
N40-04x36x67	1/8 x 36	67	195
N40-06x36x36	3/16 x 36	36	158
N40-08x36x36	1/4 x 36	36	210
N40-02x48x67	1/16 x 48	67	128
N40-03x48x67	3/32 x 48	67	200
N40-04x48x67	1/8 x 48	67	256
N40-06x48x36	3/16 x 48	36	215
N40-08x48x36	1/4 x 48	36	280
N50-02x48x67	1/16 x 48	67	132
N50-04x48x36	1/8 x 48	36	142
N50-06x48x36	3/16 x 48	36	213
N50-08x48x18	1/4 x 48	18	142
N60-01x36x67	1/32 x 36	67	52
N60-02x36x50	1/16 x36	50	74
N60-02x36x67	1/16 x 36	67	99
N60-02x36x100	1/16 x 36	100	147
N60-02x72x67	1/16 x 72	67	197
N60-03x36x67	3/32 x 36	67	149
N60-04x36x50	1/8 x 36	50	148
N60-04x36x67	1/8 x 36	67	198
N60-04x36x100	1/8 x 36	100	295
N60-04x72x36	1/8 x 72	36	216
N60-06x36x40	3/16 x 36	40	179
N60-06x36x50	3/16 x 36	50	223
N60-08x36x36	1/4 x 36	36	214
N60-08x36x40	1/4 x 36	40	238
N60-08x36x50	1/4 x 36	50	266
N60-12x36x25	3/8 x 36	25	222
N60-16x36x18	1/2 x 36	18	214
N60-16x36x25	1/2 x 36	25	297

NEW OR UPDATED

NEOPRENE SHEET

Neoprene (continued)

Part Number	Gauge x Width (in)	Avg. Length (Linear ft/Roll)	Approx. lbs/Roll
N60-24x36x25	3/4 x 36	25	443
N60-32x36x25	1 x 36	25	592
N60-02x48x50	1/16 x 50	50	99
N60-02x48x67	1/16 x 48	67	132
N60-02x48x100	1/16 x 48	100	197
N60-03x48x67	3/32 x 48	67	200
N60-04x48x36	1/8 x 48	36	142
N60-04x48x50	1/8 x 48	50	197
N60-04x48x100	1/8 x 48	100	394
N60-06x48x36	3/16 x 48	36	213
N60-06x48x40	3/16 x 48	40	236
N60-06x48x50	3/16 x 48	50	296
N60-08x48x18	1/4 x 48	18	142
N60-08x48x25	1/4 x 48	25	198
N60-08x48x50	1/4 x 48	50	354
N60-08x72x25	1/4 x 72	25	300
N60-12x48x25	3/8 x 48	25	296
N60-12x48x30	3/8 x 48	30	355
N60-16x48x25	1/2 x 48	25	354
N60-16x48x30	1/2 x 48	30	471
N60-16x48x40	1/2 x 48	40	628
N60-24x48x25	3/4 x 48	25	590
N60-32x48x25	1 x 48	25	788
N70-02x48x67	1/16 x 48	67	132
N70-04x48x36	1/8 x 48	36	142
N70-06x48x36	3/16 x 48	36	213
N70-08x48x18	1/4 x 48	18	142
N80-02x36x50	1/16 x 36	50	74
N80-04x36x50	1/8 x 36	50	148
N80-06x36x50	3/16 x 36	50	223
N80-08x36x50	1/4 x 36	50	297

NOTE: N80 is also available in 48" width . . . contact Kuriyama of America.

NEOPRENE SLAB RUBBER

Style	ASTM Specification (SI units)	Temp. Range	Durometer	Tensile Strength (psi)	Elongation (%)	Finish
N60	D 2000 M2BC 603	-20°F to +180°F	55-65	400	150%	Plate

Part Number	Gauge x Width (in)	Avg. Length (Linear ft/Pd)	Approx. lbs/Slab
N60-48x48x10	1 1/2 x 48	10	445
N60-64x48x10	2 x 48	10	596

General Properties of Neoprene†

- Excellent physical properties.

† Properties shown based on Rubber Manufacturers Association Sheet Rubber Handbook, second edition.

NEOPRENE CLOTH-INSERTED SHEET

SPECIFICATIONS:

Commercial grade black neoprene sheet, with nylon reinforcement:

Style NCI: 60 Duro hardness (Shore Durometer A)

Polymer: Chloroprene reinforced with 3.4 oz./sq. yd. nylon fabric

Common Name: Nylon-reinforced Neoprene Sheet

ISO/ASTM Designation: CR

Talc Free

Style	ASTM Specification (SI units)	Temp. Range	Ply	Durometer	Tensile Strength (psi)	Finish
NCI	D 2000 M2BC 607 A14 B14 F17	-20°F to +180°F	1	55 – 65	1100	Plate
NCI	D 2000 M2BC 607 A14 B14 F17	-20°F to +180°F	2	55 – 65	1100	Plate

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Fabric Plies	Avg. Length (Linear ft/Roll)	Approx. lbs/Roll
NCI-1P02x36x67	1/16 x 36	1 Ply	67	93
NCI-1P02x36x100	1/16 x 36	1 Ply	100	138
NCI-2P04x36x36	1/8 x 36	2 Ply	36	98
NCI-2P04x36x50	1/8 x 36	2 Ply	50	141
NCI-2P06x36x36	3/16 x 36	2 Ply	36	146
NCI-2P08x36x36	1/4 x 36	2 Ply	36	196
NCI-2P08x36x50	1/4 x 36	2 Ply	50	273
NCI-2P04x48x50	1/8 x 48	2 Ply	50	181
NCI-2P08x48x50	1/4 x 48	2 Ply	50	364

General Properties of Neoprene†

- Excellent physical properties.

† Properties shown based on Rubber Manufacturers Association Sheet Rubber Handbook, second edition.

NEOPRENE DIAPHRAGM SHEET

SPECIFICATIONS:

Commercial grade black neoprene sheet, with nylon reinforcement:

Style NDIA: 60 Duro hardness (Shore Durometer A)

Polymer: Chloroprene reinforced with 14.5 oz./sq. yd. nylon fabric

Common Name: Nylon-reinforced Neoprene Sheet

ISO/ASTM Designation: CR

Talc Free

Style	ASTM Specification (SI units)	Temp. Range	Ply	Durometer	Tensile Strength (psi)	Elongation (%)	Finish
NDIA	D 2000 M2BC 607 A14 B14 F17	-20°F to +180°F	1 & 2	55-65	1015	300	Plate

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Avg. Length (Linear ft/Roll)	Approx. lbs/Roll
NDIA-1P02x48x50	1/16 x 48	50	66
NDIA-2P04x48x50	1/8 x 48	50	167
NDIA-2P06x48x50	3/16 x 48	50	221
NDIA-2P08x48x500	1/4 x 48	50	289

General Properties of Nitrile†

- Excellent resistance to petroleum-based fluids.
- Good physical properties.

† Properties shown based on Rubber Manufacturers Association Sheet Rubber Handbook, second edition.

SPECIFICATIONS:

Commercial grade black nitrile sheet:

Style B60: 60 Duro hardness (Shore Durometer A)
Style B70: 70 Duro hardness (Shore Durometer A)
Polymer: Nitrile-Butadiene

Common Name: Nitrile, Buna-N
ISO/ASTM Designation: NBR
Talc Free

Style	ASTM Specification (SI units)	Temp. Range	Durometer	Tensile Strength (psi)	Elongation (%)	Finish
B60	D 2000 M5BG 607 A14 B14 E034	-30°F to +200°F	55 – 65	1015	250%	Plate
B70	D 2000 M5BG 707 A14 B14 E034	-30°F to +200°F	65 – 75	1000	350%	Plate

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Avg. Length (Linear ft/Roll)	Approx. lbs/Roll
B60-01x36x67	1/32 x 36	67	56
B60-02x36x67	1/16 x 36	67	100
B60-02x36x100	1/16 x 36	100	149
B60-03x36x67	3/32 x 36	67	150
B60-04x36x50	1/8 x 36	50	149
B60-04x36x67	1/8 x 36	67	200
B60-04x36x100	1/8 x 36	100	299
B60-06x36x36	3/16 x 36	36	161
B60-06x36x50	3/16 x 36	50	224
B60-08x36x36	1/4 x 36	36	215
B60-08x36x50	1/4 x 36	50	299
B60-02x48x67	1/16 x 48	67	133
B60-02x48x100	1/16 x 48	100	199
B60-03x48x67	3/32 x 48	67	200
B60-04x48x50	1/8 x 48	50	198
B60-04x48x67	1/8 x 48	67	266
B60-04x48x100	1/8 x 48	100	397
B60-06x48x36	3/16 x 48	36	215
B60-06x48x50	3/16 x 48	50	298
B60-08x48x36	1/4 x 48	36	287
B60-08x48x50	1/4 x 48	50	399
B70-04x48x50	1/8 x 48	50	198
B70-04x48x100	1/8 x 48	100	376
B70-06x48x50	3/16 x 48	50	298
B70-08x48x50	1/4 x 48	50	398

General Properties of Nitrile†

- Excellent resistance to petroleum-based fluids.
- Good physical properties.

† Properties shown based on Rubber Manufacturers Association Sheet Rubber Handbook, second edition.

SPECIFICATIONS:

Food grade white nitrile sheet, made from FDA-approved materials (Title 21 Food and Drug S 177.26000)

Style W60: 60 Duro hardness (Shore Durometer A)
Polymer: Nitrile-Butadiene
Common Name: Nitrile, Buna-N
ISO/ASTM Designation: NBR
Talc Free

Style	ASTM Specification (SI units)	Temp. Range	Durometer	Tensile Strength (psi)	Elongation (%)	Finish
W60	D 2000 M1BG 610	-31°F to +230°F	55 – 65	1450	300%	Plate

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Avg. Length (Linear fFt /Roll)	Approx. lbs/Roll
W60-02x36x50	1/16 x 36	50	69
W60-02x36x67	1/16 x 36	67	92
W60-03x36x67	3/32 x 36	67	137
W60-04x36x36	1/8 x 36	36	98
W60-04x36x50	1/8 x 36	50	136
W60-06x36x18	3/16 x 36	18	74
W60-08x36x18	1/4 x 36	18	98
W60-08x36x50	1/4 x 36	50	272
W60-02x48x36	1/16 x 48	36	66
W60-02x48x50	1/16 x 48	50	92
W60-04x48x36	1/8 x 48	36	131
W60-04x48x50	1/8 x 48	50	182
W60-06x48x18	3/16 x 48	18	98
W60-06x48x50	3/16 x 48	50	270
W60-08x48x18	1/4 x 48	18	131
W60-08x48x50	1/4 x 48	50	363

BLACK CLOTH-INSERTED SBR SHEET

General Properties of SBR†

- Excellent physical properties.

† Properties shown based on Rubber Manufacturers Association Sheet Rubber Handbook, second edition.

SPECIFICATIONS:

Commercial grade black SBR sheet, with cloth reinforcement:

Style CI: 60 Duro hardness (Shore Durometer A)
Polymer: Styrene-Butadiene Rubber reinforced with 3.4 oz./sq. yd. nylon fabric

Common Name: Cloth-reinforced Black Rubber Sheet
ISO/ASTM Designation: SBR
Talc Free

Style	ASTM Specification (SI units)	Temp. Range	Ply	Durometer	Tensile Strength (psi)	Elongation (%)	Finish
CI	D 2000 M2AA 603 A13 B13 EA14	-20°F to +170°F	1	55 – 65	435	250%	Plate
CI	D 2000 M2AA 603 A13 B13 EA14	-20°F to +170°F	2	55 – 65	435	250%	Plate
CI	D 2000 M2AA 603 A13 B13 EA14	-20°F to +170°F	3	55 – 65	435	250%	Plate
CI	D 2000 M2AA 603 A13 B13 EA14	-20°F to +170°F	4	55 – 65	435	250%	Plate

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Fabric Plies	Avg. Length (Linear ft /Roll)	Approx. lbs/Roll
CI-1P02x48x67	1/16 x 48	1 Ply	67	132
CI-2P04x48x36	1/8 x 48	2 Ply	36	140
CI-2P04x48x50	1/8 x 48	2 Ply	50	194
CI-2P06x48x18	3/16 x 48	2 Ply	18	107
CI-2P06x48x50	3/16 x 48	2 Ply	50	297
CI-2P08x48x18	1/4 x 48	2 Ply	18	140
CI-2P08x48x25	1/4 x 48	2 Ply	25	194
CI-2P08x48x50	1/4 x 48	2 Ply	50	388
CI-3P06x48x18	3/16 x 48	3 Ply	18	107
CI-4P08x48x18	1/4 x 48	4 Ply	18	140

UPDATED ITEMS

BLACK SBR SHEET

General Properties of SBR†

- Good physical properties.

† Properties shown based on Rubber Manufacturers Association Sheet Rubber Handbook, second edition.

SPECIFICATIONS:

Commercial grade black SBR sheet:

Style BL60: 65 Duro hardness (Shore Durometer A)
Polymer: Styrene-Butadiene

Common Name: Black Rubber Sheet
ISO/ASTM Designation: SBR
Talc Free

Style	ASTM Specification (SI units)	Temp. Range	Durometer	Tensile Strength (psi)	Elongation (%)	Finish
BL60	D 2000 M1AA 604	-13°F to +158°F	60 – 70	600	200%	Plate

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Avg. Length (Linear ft/Roll)	Approx. lbs/Roll
BL60-02x48x50	1/16 x 48	50	98
BL60-04x48x50	1/8 x 48	50	194
BL60-08x48x25	1/4 x 48	25	194

General Properties of SBR†

- Good physical properties.

† Properties shown based on Rubber Manufacturers Association Sheet Rubber Handbook, second edition.

UPDATED ITEMS

RED SBR SHEET

SPECIFICATIONS:

Commercial grade red SBR sheet, Plate or Fabric Finish:

Style R75: 70 Duro hardness (Shore Durometer A)

Style RF75: 70 Duro hardness (Shore Durometer A)

Polymer: Styrene-Butadiene

Common Name: Red Rubber Sheet

ISO/ASTM Designation: SBR

Meets D1330 Grade 1

Talc Free

Style	ASTM Specification (SI units)	Temp. Range	Durometer	Tensile Strength (psi)	Elongation (%)	Finish
R75	D 2000 M2AA 703 A13	-22°F to +158°F	65 – 75	435	150%	Plate
RF75	D 2000 M2AA 703 A13	-22°F to +158°F	65 – 75	435	150%	Fabric Impression

ORDERING INFORMATION:

Part Number		Gauge x Width (in)	Avg. Length (Linear ft/Roll)		Approx. lbs/Roll	
Plate Finish	Fabric Impression		(R75)	(RF75)	(R75)	(RF75)
R75-02x36x67	RF75-02x36x50	1/16 x 36	67	50	106	79
R75-02x72x67		1/16 x 72	67		212	
R75-04x36x36	RF75-04x36x50	1/8 x 36	36	50	114	158
R75-04x36x50		1/8 x 36	50		158	
R75-04x72x36		1/8 x 72	36		228	
R75-06x36x36	RF75-06x36x25	3/16 x 36	36	25	171	119
R75-08x36x18	RF75-08x36x25	1/4 x 36	18	25	114	158
R75-08x36x25		1/4 x 36	25		158	
R75-08x36x50		1/4 x 36	50		316	
R75-02x48x67	RF75-02x48x50	1/16 x 48	67	50	141	105
R75-03x48x67		3/32 x 48	67		211	
R75-04x48x36	RF75-04x48x50	1/8 x 48	36	50	152	211
R75-04x48x50		1/8 x 48	50		211	
R75-06x48x36		3/16 x 48	36		228	
R75-08x48x18	RF75-08x48x25	1/4 x 48	18	25	152	211
R75-08x48x50		1/4 x 48	50		422	

VITON® SHEET

General Properties of VITON®

- Excellent resistance to many concentrated acids.
- Excellent resistance to heat.

† Properties shown based on Rubber Manufacturers Association Sheet Rubber Handbook, second edition.

Note: VITON® is a registered trademark of The Chemours Company.

SPECIFICATIONS:

Commercial grade black VITON® sheet: Grade A – 66% Fluorine

Style VI70: 70 Duro hardness (Shore Durometer A)
Polymer: Hexaflouropropylene Vinylidene Flouride

Common Name: Viton
ISO/ASTM Designation: FKM
Talc Free

Style	ASTM Specification (SI units)	Temp. Range	Durometer	Tensile Strength (psi)	Elongation (%)	Finish
VI70	D 2000 M2HK 707 B37	-14°F to +482°F	70	1015	175%	Plate

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Avg. Length (Linear ft /Roll)	Approx. lbs/Roll
VI70-01x36x30	1/32 x 36	30	29
VI70-02x36x10	1/16 x 36	10	19
VI70-02x36x30	1/16 x 36	30	58
VI70-03x36x10	3/32 x 36	10	28
VI70-03x36x30	3/32 x 36	30	85
VI70-04x36x10	1/8 x 36	10	37
VI70-04x36x15	1/8 x 36	15	55
VI70-04x36x30	1/8 x 36	30	110
VI70-06x36x10	3/16 x 36	10	57
VI70-06x36x30	3/16 x 36	30	170
VI70-08x36x10	1/4 x 36	10	74
VI70-08x36x15	1/4 x 36	15	111
VI70-08x36x30	1/4 x 36	30	222
VI70-04x48x15	1/8 x 48	15	73
VI70-08x48x15	1/4 x 48	15	146

CSM SHEET

General Properties of CSM

- Excellent resistance to oxidation and outstanding resistance to strong sunlight and ozone.
- Good resistance to general acids, oils and greases.

† Properties shown based on Rubber Manufacturers Association Sheet Rubber Handbook, second edition.

SPECIFICATIONS:

CSM rubber sheet:

Style HY60: 60 Duro hardness (Shore Durometer A)
Polymer: Chlorosulphonated Polyethylene

Common Name: CSM
ISO/ASTM Designation: CSM
Talc Free

Style	ASTM Specification (SI units)	Temp. Range	Durometer	Tensile Strength (psi)	Elongation (%)	Finish
HY60	D 2000 M1CE 610	-31°F to +257°F	55 – 65	1450	350%	Plate

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Avg. Length (Linear ft /Roll)	Approx. lbs/Roll
HY60-02x36x67	1/16 x 36	67	88
HY60-04x36x67	1/8 x 36	67	176
HY60-06x36x36	3/16 x 36	36	142

General Properties of EPDM†

- Good ozone, chemical and aging resistance.

† Properties shown based on Rubber Manufacturers Association Sheet Rubber Handbook, second edition.

SPECIFICATIONS:

Commercial grade black EPDM sheet:

Style E60: 60 Duro hardness (Shore Durometer A)
Style E80: 80 Duro hardness (Shore Durometer A)
Polymer: Ethylene-Propylene-Diene-Monomer

Common Name: Ethylene-Propylene Rubber
ISO/ASTM Designation: EPDM
Talc Free

Style	ASTM Specification (SI units)	Temp. Range	Durometer	Tensile Strength (psi)	Elongation (%)	Finish
E60	D 2000 M2BA 607 A14 B13 C12	-20°F to +230°F	55 – 65	1160	320%	Plate
E80	D 2000 M1BA 802 B13 C12	-20°F to +230°F	75 – 85	1015	100%	Plate

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Avg. Length (Linear ft/Roll)	Approx. lbs/Roll
E60-02x36x67	1/16 x 36	67	92
E60-02x36x100	1/16 x 36	100	137
E60-04x36x50	1/8 x 36	50	137
E60-04x36x67	1/8 x 36	67	183
E60-06x36x36	3/16 x 36	36	148
E60-08x36x36	1/4 x 36	36	197
E60-08x36x50	1/4 x 36	50	274
E60-02x48x67	1/16 x 48	67	122
E60-02x48x100	1/16 x 48	100	182
E60-04x48x50	1/8 x 48	50	182
E60-04x48x67	1/8 x 48	67	244
E60-06x48x36	3/16 x 48	36	197
E60-08x48x36	1/4 x 48	36	263
E60-08x48x50	1/4 x 48	50	365
E60-12x48x18	3/8 x 48	18	197
E60-12x48x30	3/8 x 48	30	328
E80-04x36x50	1/8 x 36	50	137
E80-08x36x50	1/4 x 36	50	274
E80-04x48x50	1/8 x 48	50	182
E80-08x48x50	1/4 x 48	50	365

FDA SILICONE SHEET

General Properties of Silicone†

- Very good resistance to ozone, UV light and ageing.
- Good physical properties.

† Properties shown based on Rubber Manufacturers Association Sheet Rubber Handbook, second edition.

SPECIFICATIONS:

Food grade red silicone sheet: In compliance with FDA 21 CFR Part 177

Style SILFG: 60 Duro hardness (Shore Durometer A)
Polymer: Polydimethysiloxane
Common Name: Silicone
ISO/ASTM Designation: FE
Talc Free

Style	ASTM Specification (SI units)	Temp. Range	Durometer	Tensile Strength (psi)	Elongation (%)	Finish
SILFG	D 2000 M4FC 608 B37 E016 G11 EC 1935/2004	-76°F to +446°F	55 – 65	1450	500%	Plate

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Avg. Length (Linear ft /Roll)	Approx. lbs/Roll
SILFG-01x36x35	1/32 x 36	35	22
SILFG-02x36x35	1/16 x 36	35	44
SILFG-03x36x35	3/32 x 36	35	67
SILFG-04x36x35	1/8 x 36	35	89
SILFG-06x36x35	3/16 x 36	35	133
SILFG-08x36x35	1/4 x 36	35	178
SILFG-02x48x35	1/16 x 48	35	59
SILFG-04x48x35	1/8 x 48	35	118
SILFG-06x48x35	3/16 x 48	35	178
SILFG-08x48x35	1/4 x 48	35	237

Note: The SIL60 product is discontinued. Please call for availability of remaining stock.

RED PURE GUM SHEET

General Properties of Red Gum†

- Excellent physical properties.
- High abrasion-resistance.
- Good resilience.

† Properties shown based on Rubber Manufacturers Association Sheet Rubber Handbook, second edition.

SPECIFICATIONS:

Red pure gum rubber sheet:

Style RG45: 45 Duro hardness (Shore Durometer A)
Polymer: Isoprene rubber (natural)
Common Name: Natural Rubber Sheet
ISO/ASTM Designation: NR
ASTM Specification Temp. Tensile Strength Elongation
Talc Free

Style	ASTM Specification (SI units)	Temp. Range	Durometer	Tensile Strength (psi)	Elongation (%)	Finish
RG45	D 2000 M4AA 414 A13 B13 G21	-40°F to +185°F	40 – 50	2050	400%	Plate

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Avg. Length (Linear ft/Roll)	Approx. lbs/Roll
RG45-04x48x36	1/8 x 48	36	94
RG45-08x48x25	1/4 x 48	25	137
RG45-12x48x25	3/8 x 48	25	205
RG45-16x48x25	1/2 x 48	25	273
RG45-24x48x25	3/4 x 48	25	410
RG45-32x48x25	1 x 48	25	546

General Properties of Pure Gum†

- Excellent physical properties.
- Excellent abrasion-resistance.
- Excellent low temperature resistance.
- Good resistance to most acids.

† Properties shown based on Rubber Manufacturers Association Sheet Rubber Handbook, second edition.

SPECIFICATIONS:

Tan pure gum rubber sheet:

Style GF40: 40 Duro hardness (Shore Durometer A)
Polymer: Isoprene rubber (natural)

Common Name: Natural Rubber Sheet
ISO/ASTM Designation: NR
Talc Free

Style	ASTM Specification (SI units)	Temp. Range	Durometer	Tensile Strength (psi)	Elongation (%)	Finish
GF40	D 2000 M4AA 421 A13 B13 G21	-40°F to +176°F	35 – 45	3050	600%	Plate

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Avg. Length (Linear ft/Roll)	Approx. lbs/Roll
GF40-02x36x67	1/16 x 36	67	65
GF40-04x36x50	1/8 x 36	50	99
GF40-04x36x67	1/8 x 36	67	131
GF40-06x36x50	3/16 x 36	50	149
GF40-06x36x67	3/16 x 36	67	196
GF40-08x36x36	1/4 x 36	36	140
GF40-08x36x50	1/4 x 36	50	199
GF40-12x36x36	3/8 x 36	36	211
GF40-12x36x50	3/8 x 36	50	298
GF40-16x36x18	1/2 x 36	18	140
GF40-24x36x18	3/4 x 36	18	211
GF40-32x36x18	1 x 36	18	281
GF40-02x48x67	1/16 x 48	67	87
GF40-04x48x36	1/8 x 48	36	94
GF40-04x48x50	1/8 x 48	50	131
GF40-06x48x36	3/16 x 48	36	140
GF40-06x48x50	3/16 x 48	50	199
GF40-08x48x18	1/4 x 48	18	94
GF40-08x48x50	1/4 x 48	50	265
GF40-12x48x50	3/8 x 48	50	397
GF40-16x48x25	1/2 x 48	25	264
GF40-24x48x25	3/4 x 48	25	397
GF40-32x48x25	1 x 48	25	530

**** GF40 is being replaced by GF490. See page 14 for specifications. GF40 will still be available as a special order item. Contact KOA for price and minimum.***

NEW

General Properties of Pure Gum†

- Excellent physical properties.
- Excellent abrasion-resistance.
- Excellent low temperature resistance.
- Good resistance to most acids.

† Properties shown based on Rubber Manufacturers Association Sheet Rubber Handbook, second edition.

SPECIFICATIONS:

Tan pure gum rubber sheet:

Style GF490: 40 Duro hardness (Shore Durometer A)
Polymer: Isoprene rubber (natural)

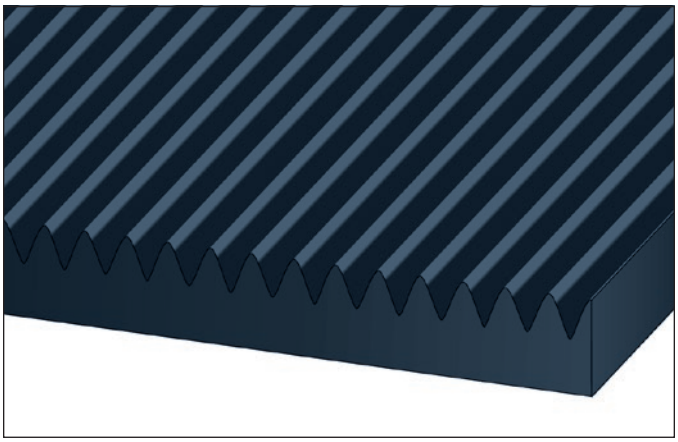
Common Name: Natural Rubber Sheet
ISO/ASTM Designation: NR
Talc Free

Style	ASTM Specification (SI units)	Temp. Range	Durometer	Tensile Strength (psi)	Elongation (%)	Finish
GF490	D 2000 M4AA 417 A13 B13 G21	-40°F to +176°F	35 – 45	2500	600%	Plate

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Avg. Length (Linear ft/Roll)	Approx. lbs/Roll
GF490-02x36x67	1/16 x 36	67	68
GF490-04x36x50	1/8 x 36	50	102
GF490-04x36x67	1/8 x 36	67	137
GF490-06x36x50	3/16 x 36	50	153
GF490-06x36x67	3/16 x 36	67	205
GF490-08x36x36	1/4 x 36	36	147
GF490-08x36x50	1/4 x 36	50	204
GF490-12x36x36	3/8 x 36	36	221
GF490-16x36x18	1/2 x 36	18	147
GF490-24x36x18	3/4 x 36	18	221
GF490-32x36x18	1 x 36	18	294
GF490-01x48x67	1/32 x 48	67	46
GF490-02x48x67	1/16 x 48	67	91
GF490-04x48x36	1/8 x 48	36	98
GF490-04x48x50	1/8 x 48	50	136
GF490-06x48x36	3/16 x 48	36	147
GF490-06x48x50	3/16 x 48	50	204
GF490-08x48x18	1/4 x 48	18	98
GF490-08x48x50	1/4 x 48	50	273
GF490-12x48x50	3/8 x 48	50	409
GF490-16x48x25	1/2 x 48	25	273
GF490-24x48x25	3/4 x 48	25	409
GF490-32x48x25	1 x 48	25	545

BLACK "V" CORRUGATED PREMIUM RUBBER MATTING



SPECIFICATIONS:

Blended SBR/Natural Rubber

Provides floor protection in entrances and hallways in offices and plants. "V" corrugation allows for easy cleaning.

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Temp. Range	Avg. Length (Linear ft/Roll)	Approx. lbs/Roll
MAT-04x24x75	1/8 x 24	-13°F to +158°F	75	101
MAT-04x36x75	1/8 x 36	-13°F to +158°F	75	152
MAT-04x48x75	1/8 x 48	-13°F to +158°F	75	203

BLACK WIDE-RIBBED PREMIUM RUBBER MATTING

SPECIFICATIONS:

Made with a blend of SBR/Natural Rubber for tough, long lasting service.

This premium wide-ribbed rubber matting is ideal for many uses:

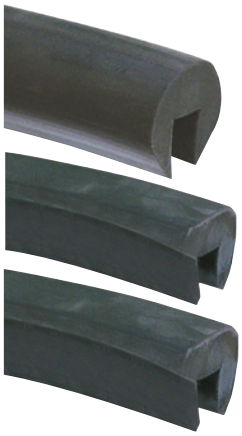
- Factory work stations
- Hallway runners
- Protective covering for carpets

Features:

- Easy to maintain
- Easy to clean:
  - Wet Mop
  - Garden Hose
  - Household Broom
  - Vacuum Cleaner

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Temp. Range	Avg. Length (Linear ft/Roll)	Approx. lbs/Roll
EZMAT-04x24x75	1/8 x 24	-13°F to +158°F	75	111
EZMAT-04x36x75	1/8 x 36	-13°F to +158°F	75	167
EZMAT-04x48x75	1/8 x 48	-13°F to +158°F	75	222



STYLE RTCHNL
Round Top

STYLE THCHNL
Tapered Hex
Flat Top

STYLE HFTCHNL
Hex Flat Top

CHANNEL RUBBER STRIP

SPECIFICATIONS:

Commercial grade black EPDM channel:

Hardness: 65 Duro hardness (Shore Durometer A)

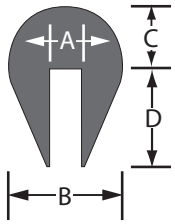
Tensile Strength: 1,650 PSI

Elongation: 310%

This channel rubber strip is ideal for use as a protective edge on shaker screens and a variety of other types of industrial equipment.

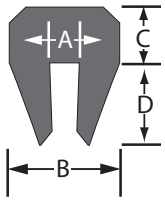
Standard Round Top Channel

Part Number	Channel Size (in)	Temp. Range	Dimension (in)			
			A	B	C	D
RTCHNL-04x200	1/4	-40°F to +235°F	0.25	0.81	0.44	0.56
RTCHNL-06x200	3/8	-40°F to +235°F	0.38	1.00	0.50	0.50
RTCHNL-08x100	1/2	-40°F to +235°F	0.50	1.25	0.56	0.63
RTCHNL-12x100	3/4	-40°F to +235°F	0.75	1.20	0.63	1.40



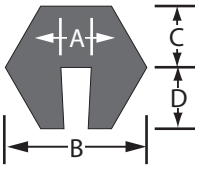
Tapered Hex-Flat Top Channel

Part Number	Channel Size (in)	Temp. Range	Dimension (in)			
			A	B	C	D
THCHNL-04x200	1/4	-40°F to +235°F	0.25	0.65	0.38	0.63
THCHNL-06x200	3/8	-40°F to +235°F	0.38	0.85	0.50	0.63
THCHNL-08x100	1/2	-40°F to +235°F	0.50	1.20	0.50	0.69
THCHNL-12x100	3/4	-40°F to +235°F	0.75	1.45	0.50	0.75



Hex-Flat Top Channel

Part Number	Channel Size (in)	Temp. Range	Dimension (in)			
			A	B	C	D
HFTCHNL-04x200	1/4	-40°F to +235°F	0.25	0.75	0.31	0.38
HFTCHNL-06x200	3/8	-40°F to +235°F	0.38	0.88	0.31	0.44
HFTCHNL-08x100	1/2	-40°F to +235°F	0.50	1.00	0.44	0.50
HFTCHNL-12x100	3/4	-40°F to +235°F	0.75	1.25	0.50	0.63



ORDERING INFORMATION:

Part Number	Channel Size (in)	Roll Length Linear ft	Approx. lbs/Roll
RTCHNL-04x200	1/4	200	50
RTCHNL-06x200	3/8	200	70
RTCHNL-08x100	1/2	100	51
RTCHNL-12x100	3/4	100	70
THCHNL-04x200	1/4	200	44
THCHNL-06x200	3/8	200	64
THCHNL-08x100	1/2	100	48
THCHNL-12x100	3/4	100	62
HFTCHNL-04x200	1/4	200	34
HFTCHNL-06x200	3/8	200	42
HFTCHNL-08x100	1/2	100	44
HFTCHNL-12x100	3/4	100	40

General Properties of 60 Durometer Skirtboard Rubber

- Excellent abrasion-resistance.
- Excellent weather-resistance

SPECIFICATIONS:

Blended SBR/NR slit sheet, Plate Finish:

Style SK60: 60 Duro hardness (Shore Durometer A)

Polymer: Styrene-Butadiene and Isoprene Rubber, Natural

PACKAGING: 50 Ft. Rolls

Color: Black

Common Name: Skirtboard Rubber

ISO/ASTM Designation: SBR/NR

Style	ASTM Specification (SI units)	Temp. Range	Durometer	Tensile Strength (psi)	Elongation (%)	Finish
SK60	D 2000 M1AA 608	-22°F to +158°F	55 – 65	1050	300%	Plate

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Avg. Length (Linear Ft/Roll)	Approx. Lbs/Roll
SK60-08x3x50	1/4 x 3	50	23
SK60-08x4x50	1/4 x 4	50	30
SK60-08x5x50	1/4 x 5	50	38
SK60-08x6x50	1/4 x 6	50	45
SK60-08x8x50	1/4 x 8	50	61
SK60-08x10x50	1/4 x 10	50	76
SK60-08x12x50	1/4 x 12	50	91
SK60-12x3x50	3/8 x 3	50	34
SK60-12x4x50	3/8 x 4	50	45
SK60-12x5x50	3/8 x 5	50	57
SK60-12x6x50	3/8 x 6	50	68
SK60-12x8x50	3/8 x 8	50	91
SK60-12x10x50	3/8 x 10	50	114
SK60-12x12x50	3/8 x 12	50	136
SK60-16x3x50	1/2 x 3	50	45
SK60-16x4x50	1/2 x 4	50	61
SK60-16x5x50	1/2 x 5	50	76
SK60-16x6x50	1/2 x 6	50	91
SK60-16x8x50	1/2 x 8	50	121
SK60-16x10x50	1/2 x 10	50	151
SK60-16x12x50	1/2 x 12	50	182
SK60-24x3x50	3/4 x 3	50	68
SK60-24x6x50	3/4 x 6	50	136
SK60-24x8x50	3/4 x 8	50	182
SK60-24x9x50	3/4 x 9	50	205
SK60-24x10x50	3/4 x 10	50	227
SK60-24x12x50	3/4 x 12	50	273
SK60-32x3x50	1 x 3	50	91
SK60-32x6x50	1 x 6	50	182
SK60-32x8x50	1 x 8	50	242
SK60-32x10x50	1 x 10	50	303
SK60-32x12x50	1 x 12	50	363

80 DUROMETER ECONOMY SKIRTBOARD RUBBER

General Properties of 80 Durometer Skirtboard Rubber

- Excellent abrasion-resistance.
- Excellent weather-resistance.

SPECIFICATIONS:

Blended NR slit sheet, Plate Finish:

Style ESK80: 80 Duro hardness (Shore Durometer A)
Polymer: Natural and Synthetic Rubber
Color: Black
Common Name: Skirtboard Rubber
ISO/ASTM Designation: NR

PACKAGING: 50 Ft. Rolls

Tensile Strength: 290 PSI
Elongation: 100%
Applications:
Slit to width for belt wipers, snow plow blades and squeegee use.

Style	ASTM Specification (SI units)	Temp. Range	Durometer	Tensile Strength (psi)	Elongation (%)	Finish
ESK80	D 2000 M1AA 802	-22°F to +158°F	75 – 85	290	100%	Plate

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Avg. Length (Linear ft/Roll)	Approx. lbs/Roll
ESK80-16x4x50	1/2 x 4	50	61
ESK80-16x6x50	1/2 x 6	50	91
ESK80-16x8x50	1/2 x 8	50	121
ESK80-24x6x50	3/4 x 6	50	137
ESK80-24x8x50	3/4 x 8	50	182
ESK80-32x6x50	1 x 6	50	182
ESK80-32x8x50	1 x 8	50	243
ESK80-32x10x50	1 x 10	50	303
ESK80-32x12x50	1 x 12	50	364

NEW ITEMS

SPECIAL ECONOMY SKIRTBOARD

SPECIFICATIONS:

SBR - Plate Finish

Style SESK: 65 Duro hardness (Shore A)

PACKAGING: 50 Ft. Rolls

Style	ASTM Specification (SI units)	Temp. Range	Durometer	Tensile Strength (psi)	Elongation (%)	Finish
SESK60	D 2000 M1AA 654	-22°F to +158°F	60 – 70	610	300%	Plate

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Avg. Length (Linear ft/Roll)	Approx. lbs/Roll
SESK60-08x3x50	1/4 x 3	50	21
SESK60-08x4x50	1/4 x 4	50	28
SESK60-08x6x50	1/4 x 6	50	43
SESK60-08x8x50	1/4 x 8	50	57
SESK60-08x10x50	1/4 x 10	50	71
SESK60-08x12x50	1/4 x 12	50	85
SESK60-12x2x50	3/8 x 2	50	21
SESK60-12x3x50	3/8 x 3	50	32
SESK60-12x4x50	3/8 x 4	50	42
SESK60-12x6x50	3/8 x 6	50	63
SESK60-12x8x50	3/8 x 8	50	84
SESK60-12x10x50	3/8 x 10	50	105
SESK60-12x12x50	3/8 x 12	50	127
SESK60-16x3x50	1/2 x 3	50	42
SESK60-16x4x50	1/2 x 4	50	56
SESK60-16x5x50	1/2 x 5	50	71
SESK60-16x6x50	1/2 x 6	50	85
SESK60-16x8x50	1/2 x 8	50	113
SESK60-16x10x50	1/2 x 10	50	141
SESK60-16x12x50	1/2 x 12	50	169
SESK60-24x3x50	3/4 x 3	50	63
SESK60-24x4x50	3/4 x 4	50	85
SESK60-24x6x50	3/4 x 6	50	127
SESK60-24x8x50	3/4 x 8	50	165
SESK60-24x10x50	3/4 x 10	50	211
SESK60-24x12x50	3/4 x 12	50	253
SESK60-32x3x50	1 x 3	50	85
SESK60-32x4x50	1 x 4	50	113
SESK60-32x6x50	1 x 6	50	169
SESK60-32x8x50	1 x 8	50	226
SESK60-32x10x50	1 x 10	50	282
SESK60-32x12x50	1 x 12	50	339
SESK60-48x10x50	1 1/2 x 10	50	455

NEW ITEMS

SPECIAL ECONOMY SKIRTBOARD

48" Wide Economy Skirtboard Slab Rubber

Style	ASTM Specification (SI units)	Temp. Range	Durometer	Tensile Strength (psi)	Elongation (%)	Finish
SESK60	D 2000 M1AA 654	-22°F to +158°F	60 – 70	610	250%	Plate

ORDERING INFORMATION:

Part Number	Gauge x Width (in)	Avg. Length (Linear ft/Roll)	Approx. lbs/Roll
SESK60-08x48x50	1/4 x 48	50	363
SESK60-12x48x50	3/8 x 48	50	545
SESK60-16x48x50	1/2 x 48	50	727
SESK60-24x48x50	3/4 x 48	50	1090
SESK60-32x48x50	1 x 48	50	1454

SHEET RUBBER GLOSSARY

Adhesion: (1) Basically, the adhering, clinging, bonding or sticking of two material surfaces to one another, such as rubber to rubber, rubber to glass, rubber to metal, rubber to wood, rubber to fabric, rubber to cord, rubber to wire, etc. (2) Refers to the strength of bond between cured rubber surfaces or cured rubber surface and a non-rubber surface.

Aging: To undergo changes to physical properties with age or lapse of time.

Aging, Air Oven: A means of accelerating the change in physical properties of rubber compounds by exposing them to the action of air at an elevated temperature.

Ambient Temperature: The environment temperature surrounding the object under consideration.

Blemish: A mark, deformity, or injury which impairs the appearance.

Blisters: A raised spot on the surface or a separation between layers usually forming a void or air-filled space in the vulcanized article. (See bubbles, sinks and voids.)

Bloom: A coating or efflorescence creating a discoloration or change in appearance of the surface of a rubber product caused by the migration of a liquid or solid to the surface. Examples: Sulfur Bloom, Wax Bloom. Not to be confused with dust on the surface from external sources.

Calendered: Continuously sheeted or plied up rubber compound or fabric that is frictioned or coated with rubber compound on a machine equipped with three or more heavy internally heated or cooled rolls revolving in opposite direction.

Checking: Short, shallow cracks on the surface, generally due to effect of destructive action of environmental conditions.

C. I. (Cloth-inserted): An abbreviation used to indicate a sheet of rubber containing one or more plies of cloth or duck, in which the cloth is completely covered with rubber.

Cloth Impression: Same as fabric impression.

Coating: A layer of material covering a surface.

Compression Set: The deformation which remains in rubber after it has been subjected to and released from a specific compressive stress for a definite period of time at a prescribed temperature. Compression set measurements are made for the purpose of evaluating the creep and stress relaxation properties of rubber.

Cracking: A sharp break or fissure in the surface. Generally due to excessive strain.

Crazing: A surface effect on rubber articles characterized by multitudinous minute cracks.

Cure: The act of vulcanization.

Curing Temperature: The temperature at which the rubber is vulcanized.

Diaphragm Sheet: Sheet (generally fabric-reinforced rubber) from which flat diaphragms may be cut.

Die Cut: Shaped articles punched from a sheet of rubber with a die.

Dielectric Strength: The measure of electric potential strength of a rubber product. Measure of its ability as an insulating compound to resist passage of a disruptive discharge produced by an electric stress. Measure as volts per mil of thickness.

Durometer: An instrument for measuring the hardness of rubber. Measures resistance to the penetration of an indentor point into the surface of the rubber.

Durometer Hardness: An arbitrary numerical value which measures the resistance to penetration of the indentor point of the durometer. Value may be taken immediately or after a very short specified time.

Elastomer: Macromolecular material that returns rapidly to approximately the initial dimensions and shape after substantial deformation by a weak stress and release of stress.

Elongation: Increase in length expressed numerically as a fraction or percentage of initial length.

Filler: (1) A material incorporated into a rubber compound to increase its bulk. (2) A compound built into a rubber product to increase its bulk and/or improve its appearance. (3) Sometimes erroneously used to mean “filling" in textiles.

Finish, Fabric: Same as impress, fabric.

Finish, Paper: Finish resulting from curing in contact with paper.

Finish Plate or Platen: Same as plate finish (sheet).

Foreign Material: Any extraneous matter such as wood, paper, metal, sand, dirt or pigment that should not normally be present in a particular rubber product or composition.

SHEET RUBBER GLOSSARY

Gauge: (1) The measure of thickness of the individual elements making up a rubber product. (2) A device for measuring. (See thickness.)

Grain: The effect on a rubber compound due to processing it through a tubing machine, calender, or mill.

Hardness: Property or extent of being hard. Measured by extent of failure of the indentor point of any one of a number of standard hardness testing instruments to penetrate the product.

Homogeneity: Uniformity of composition throughout the material.

Homogeneous: Of uniform composition throughout.

Impression: Design formed during vulcanization in the surface of any rubber article by a method of transfer, such as fabric impression or molded impression.

Impression, Fabric: Impression formed during cure by fabric wrap.

Laminated: Built up from thinner layers.

Modulus: In the physical testing of rubber, it is the ratio of stress to strain; that is, the load in pounds per square inch or kilograms per square centimeter of initial cross sectional-area necessary to produce a stated percentage elongation. It is a measure of stiffness.

Non-blooming: The absence of bloom.

Oxidation: The reaction of oxygen on a rubber product, usually detected by a change in the appearance or feel of the surface, or by a change in physical properties.

Ozone Cracking: Surface cracks, checks or crazing caused by exposure to an atmosphere containing ozone. (See also ozone resistant.)

Ozone Resistant: Withstands the deteriorating effects of ozone, generally cracking.

Plate Finish (Sheet): A commercially smooth surface, the usual result of vulcanization between press plates (platens).

Ply: (1) A layer of rubberized fabric. (2) A layer consisting of multiple strands of cord or wire close spaced. (3) A single yarn in a composite yarn. (4) Used in processing as a layer of unvulcanized rubber compound.

Polymer: A very long chain of units of monomers, prepared by means of an addition and/or condensation polymerization. The units may be the same of different. There are copolymers, di-polymers, tri or ter polymers, quadri-polymers, high polymers, etc. Natural rubber is a polymer of Isoprene.

Press Length: The length of a product which can be vulcanized at one time in a press, limited to the length measurement of the press.

Random Length: A unit of material which does not fall into any current classification for standard length.

Relative Humidity: The ration of the quantity of water vapor actually present in the atmosphere to the greatest amount possible at the given temperature.

Roll: Sheet rubber and gasket material of a uniform width rolled up on itself from which gaskets and other products of lesser dimensions and various shapes may be cut.

Rubber: A material that is capable of recovering from large deformations quickly and forcibly, and can be, or already is, modified to a state in which it is essentially insoluble (but can swell) in boiling solvent, such as benzene, methyl ethyl ketone, and ethanol-toluene azeotrope.

Sinks: A collapsed blister or bubble leaving a depression in the product.

Slab: Thick sheet, generally laminated.

Specific Gravity: The ratio of the weight of a given substance to the weight of an equal volume of water at a specified temperature.

Tacky (Rubber Surface): Tending to adhere.

Tensile Strength: The maximum tensile stress applied during stretching a specimen to rupture.

Viscosity: A manifestation of internal friction opposed to mobility. The property of fluids and plastic solids by which they resist an instantaneous change of shape, i.e., resistant to flow.

Volume Swell: Increase in physical size caused by the swelling action of a liquid.

Vulcanization: Act or process of treating an elastomer or compound of same to improve its useful properties, usually accomplished by application of heat.

Warp: The yarns that run lengthwise in a woven fabric.

Waft: The crosswise threads in a fabric; filling threads. The threads or yarns running at right angle to the warp.

General properties of common polymers used in sheet rubber

	Neoprene	Nitrile	EPDM	SBR	CI	Pure Gum	Silicone	Viton	CSM
Heat Aging	Good	Good	Excellent	Good	Good	Good	Excellent	Excellent	Good
Abrasion Resistance	Very Good	Very Good	Good	Good	Good	Excellent	Poor	Fair	Fair
Compression Set	Fair	Fair	Fair	Good	Good	Good	Fair	Good	Good
Resilience	Excellent	Good	Good	Good	Good	Outstand-ing	Fair	Fair	Fair
Tear	Good	Good	Good	Fair	Good	Good	Good	Fair	Fair
Flame Resistance	Excellent	Poor	Very Poor	Very Poor	Very Poor	Very Poor	Fair	Good	Good
Weathering	Very Good	Fair	Excellent	Fair	Fair	Fair	Good	Excellent	Excellent
Ozone Resistance	Very Good	Very Poor	Good	Fair	Fair	Poor	Good	Excellent	Excellent
Gas Permeability Resistance	Good	Good	Good	Good	Good	Good	Poor	Poor	Poor
Oil Resistance	Good	Excellent	Very Poor	Poor	Poor	Very Poor	Fair	Good	Fair
Gas Resistance	Good	Excellent	Very Poor	Poor	Poor	Very Poor	Poor	Poor	Poor
Acid Resistance	Good	Good	Good	Fair	Fair	Good	Poor	Good	Good
Alkali Resistance	Good	Good	Good	Fair	Fair	Good	Poor	Good	Good

TAKE NOTE!

The general properties shown in the chart above are not intended to be used to make final choices for a specific application. Exposure to heat, sunlight, chemicals, ozone and oils, as well as pressure, tension, binding, stretching and folding, will affect the performance of a rubber product.

Suitability must be determined by a qualified person. See Cautionary Statement on the next page.

Sheet Rubber Tolerances

(Tolerances conform to RMA standards, Durometer ± 5 points.)

Thickness	Tolerance
1/32" but not including 1/16"	± .012"
1/16" but not including 1/8"	± .016"
1/8" but not including 3/16"	± .020"
3/16" but not including 3/8"	± .031"
3/8" but not including 9/16"	± .047"
9/16" but not including 3/4"	± .062"
3/4" but not including 1"	± .094"
1" and Over	± 10%

Width	Tolerance
36" and over	± 1.00"

Recommended Shelf Life for Sheet Rubber

Common Polymer Name	Recommended Shelf Life
Viton / Silicone	20 Years
Nitrile / Neoprene	5-10 Years
EPDM / CSM	5-10 Years
Natural Rubber (Pure Gum)	3-5 Years
SBR	3-5 Years

Shelf life may be affected if storage factors listed below are different than the guidelines shown by the Rubber Manufacturers Association.

Storage of Rubber Products†

Rubber products in storage can be adversely affected by such factors as temperature, ozone, sunlight, oils, solvents, corrosive liquids and fumes, insects and rodents, and radiation.

The warehousing area should be relatively cool, dark and free from dampness and mildew. All items should be stored on a first-in first-out basis, since even under these conditions an unusually long period of storage could deteriorate certain rubber products.

The ideal storage temperature for rubber products is 50° to 70° F (10° to 21° C), with a maximum limit of 100° F (38° C). If stored below 32° F (0° C), some products may become stiff and should be warmed before being placed in service. Rubber products should not be stored near sources of heat, such as radiators and baseboard heaters.

Rubber products should not be stored under conditions of high or low humidity.

To protect against the adverse effects of ozone, rubber products should not be stored near electrical equipment that may generate ozone and should not be stored for any lengthy period of time in geographical areas known to be high in ozone. Conditions of direct or reflected sunlight should also be avoided.

Whenever feasible, rubber products should be stored in their original shipping containers, especially when such containers are wooden crates or cardboard cartons, since this will provide protection against the deteriorating effects of oils, solvents and corrosive liquids, as well as affording some protection against ozone and sunlight.

Because certain rodents and insects thrive on rubber products, adequate protection from them should be provided.

† Based on information from Rubber Manufacturers Association Sheet Rubber Handbook, second edition.

Sheet Rubber Training

courtesy of ***KuriyamaAcademy.com***

Common Name	ASTM Designation (D1418-93)	Series Number	General Properties	Common Applications
Ethylene-propylene rubber	EPDM	E60, E80	Good general purpose polymer. Excellent heat, ozone and weather resistance. Not oil resistant.	Chemical and/or high heat applications.
Buna-N or Nitrile	NBR	B60, B70	Excellent oil resistance. Good physical properties.	Oil and fuel applications.
Buna-N or Nitrile (Food Grade)	NBR	W60	Excellent oil resistance. Good physical properties.	Food, cosmetic and pharmaceutical gaskets. Table covers for meat cutting and medicine handling.
Neoprene	CR	N40, N50, N60, N70, N80	Moderate oil resistance. The most popular sheet rubber as it has the best all-around properties. Comes in five different hardnesses from softer 40 durometer to harder 80 durometer.	Automotive and water pump seals and sewage truck packings between pumps.
Nylon-reinforced Neoprene (Cloth inserted or diaphragm)	CR	NCI, NDIA	Moderate oil resistance. Good physical properties. Higher tensile strength than standard neoprene.	Aircraft swinging hangar doors, low pressure air and water meter gaskets and weather stripping.
Natural or Gum	NR	RG45, GF40	Highest abrasion resistance. Excellent physical properties. Not oil resistant.	Sandblasting curtains and cement chutes.
Styrene-Butadine	SBR	BL60, R75, RF75	Good abrasion resistance. Good physical properties.	Plumbing and heating gaskets, such as the ones used in garden hose, also sealing applications.
Nylon-reinforced Styrene-Butadine (Cloth inserted)	SBR	CI	Good abrasion resistance. Good physical properties. Higher tensile strength than standard SBR.	Aircraft hangar doors, low pressure air and water meter gaskets and stripping.
Viton	FKM	VI70	Excellent resistance to high heat and many concentrated acids.	Chemical or high heat applications such as industrial laundry dryers and high heat door seals on ovens.
Sillicone	FE	SILFG	Good performance in extreme hot and cold temperatures.	Chemical or high heat applications such as industrial laundry dryers and high heat door seals.
Chlorosuplhonated Polyethylene	CSM	HY60	Excellent UV and ozone resistance. Good resistance to acids, oils and greases.	Formerly referred to by the trade name Hypalon, used for seals and equipment protection in chemical and automotive applications.

Sheet Rubber Training

courtesy of ***KuriyamaAcademy.com***

Q: What is sheet rubber?
A: Sheet rubber consists of rolled up, vulcanized, rubber sheets, used primarily for cutting gaskets, but also used to make seals, protective stripping and coverings, and vibration dampeners around machinery.

Q: What sizes does it come in?
A: Sheet rubber is traditionally offered in thickness of 1/32" to 2". Kuriyama currently offers sheet rubber from 1/32" up to 1" thick, and in widths of 36" and 48".

Q: Which types of sheet rubber are the most popular?
A: Kuriyama offers a wide variety of sheet rubber types, but the most popular are SBR, EPDM, Nitrile, Neoprene and Natural (Gum) Rubber.

Q: Does the color of the sheet rubber make any difference?
A: While both are extremely abrasion resistant, the red sheet rubber is even more abrasion resistant than the tan, for highly demanding applications. The performance characteristics of the white and black nitrile are similar; however, the white color is preferred in food grade applications.

Q: What do “cloth-inserted” and “diaphragm”refer to?
A: These terms refer to our neoprene and SBR sheet rubbers with nylon fabric reinforcement for added strength. These materials are used in applications where the material will be under additional stress. The Diaphragm uses a thicker fabric for even more strength than the cloth inserted material.

Q: Does sheet rubber meet any type of standard?
A: Yes, at minimum all sheet rubber must meet the ASTM D2000 M1 specifications for vulcanized rubber. This standard tests the material’s hardness (called durometer), tensile strength (its resistance to tearing) and elongation (the percent it can stretch before breaking).

Q: Is all sheet rubber basically the same quality?
A: Not all sheet rubber is created equal. All commercial grade sheet rubber contains fillers, which are added to lower the material’s cost, however these fillers negatively impact the performance of the material. The lower the percentage of fillers, the better the material will perform. Kuriyama Sheet Rubber has amongst the lowest percentage of fillers on the market.

Q: How can I be assured of the superior quality of Kuriyama sheet rubber?
A: It goes back to the ASTM D2000 spec. While most sheet rubber meets the “M1” level previously mentioned, most Kuriyama Sheet Rubber meets higher tiers of the ASTM D2000 spec, referred to as “M2” (or higher). This means the material has been tested to additional performance characteristics, such as oil resistance, heat resistance and cold weather resistance, that the M1 material has not. Materials with higher percentages of fillers will fail to meet the M2 specifications. These material testing results are listed on the individual product Certificates of Conformance and available upon request by emailing customerservice@kuriyama.com.

Notes

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All Products sold and distributed by Kuriyama of America, Inc. are in the nature of commodities and they are sold by published specifications and not for particular purposes, uses or applications. Purchaser shall first determine their suitability for the intended purposes, uses or applications and shall either conduct its own engineering studies or tests, or retain qualified engineers, consultants or testing laboratories and consult with them before determining the proper use, suitability or propriety of the merchandise or Products for the intended purposes, uses or applications.

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