



COVER COMPOUNDS

GENERAL PURPOSE/ABRASION RESISTANT

GII—General duty compound. Good abrasion, cut and gouge resistance make this a good economical good choice.

XT-GII—Compound; exceeds ARPM Grade 2 specs. Yields very good abrasion, tensile, tear and elongation values. Combine with a Legend carcass for a great performing belt.

GI—General purpose compound. Offers good abrasion, cut and gouge resistance; excellent choice for handling larger rock, or sharp, heavy material.

XT-GI—Exceeds ARPM's Grade 1 specs; an excellent choice when better abrasion, cut and gouge resistance is required.

FF (Force Field)—Specially formulated for high abrasion applications, Force Field is a superior compound, ready for the long haul.

GI-P (Grade I Premium)—Premium compound for heavy rock or high-impact applications. This unprecedented compound offers ultimate abrasion with high elongation and tensile to prevent tearing. Couple with a Viper or Legend Polyester/Nylon carcass for primary belt or under crusher belt.

OIL/HIGH TEMPERATURE SERVICE

MOR (Moderately Oil Resistant)—A compound formulated for handling oily products that contain – or will be coated with – light oils, such as pine chips, grains, coke, oil-treated coal.

XT-MOR—Moderately oil resistant version of the XT-GII compound; this compound offers a higher degree of oil and abrasion resistance. It is a good value for handling moderately oily material to resist the terpene content of wood chips and other oily grains.

GHS (Grain Handler Supreme)—The Grain Handler Supreme features a high Nitrile composition, making it ideal to handle grains without worry. GHS is ideal for more oily applications, like conveying crushed canola, but is also well suited for use with mineral oil dust suppression systems.

HH (High Heat)—An EPDM with good-to-excellent heat resistance at temperatures ranging to 400°F; offers outstanding ozone and oxidation resistance, as well as good abrasion resistance. Ideal for handling high temperature and very abrasive products – like clinker.

HAHOR (Hot Asphalt/Heat and Oil Resistant)/VOR (Very Oil Resistant)—A high-heat NBR formulated to withstand the high temperatures and heavy oils of the asphaltting industry; offers good abrasion, and excellent oil resistance. Heat resistant up to 350°F, but only achievable when heavy oil is present; not rated above 150°F otherwise.

COMPOUND (INTERNATIONAL DESIGNATION)

	TEST STANDARD	UNIT	GII	XT-GII (Z,L)	GI (N-17)	XT-GI	FF (K,W)	GI-P (M,H,X,Y)
TENSILE	ISO 37	PSI (min.)	2000	2200	2500	2700	2610	3626
		MPa (min.)	13.8	15.2	17.2	18.6	18.0	25.0
ELONGATION	ISO 37	% (min.)	400	450	450	500	400	450
HARDNESS	ISO 48	Shore A	60 ± 5	60 ± 5	60 ± 5	60 ± 5	70 ± 5	70 ± 5
ABRASION INDEX	ISO 4649-2002 (DIN 53516)	mm ³ (max.)	250	175	150	120	90	120
OZONE	ASTM D1171	Pass / Fail	Pass	Pass	Pass	Pass	Pass	Pass
TEMPERATURE RANGE		Fahrenheit (°F)	-40 to 150*	-40 to 150*	-30 to 400*	-40 to 150*	-40 to 150*	-40 to 150*
		Celsius (°C)	-40 to 65*	-40 to 65*	-34 to 204*	-40 to 65*	-40 to 65*	-40 to 65*
OIL SWELL	ASTM D-471	% (max.)	N/A	N/A	N/A	N/A	N/A	N/A
STATIC CONDUCTIVE (≤ 300 MΩ)	ISO 284	YES / NO	NO	NO	NO	NO	NO	NO

* Maximum conveyed material temperature. Cycle times, belt cooling and other conditions may affect belt performance & life cycle.

COMPOUND (INTERNATIONAL DESIGNATION)

	TEST STANDARD	UNIT	MOR	XT-MOR	HH EPDM	HAHOR/VOR	GHS
TENSILE	ISO 37	PSI (min.)	1800	2000	1800	1800	1800
		MPa (min.)	12.4	12.4	12.4	12.4	12.4
ELONGATION	ISO 37	% (min.)	400	450	450	450	450
HARDNESS	ISO 48	Shore A	60 ± 5	60 ± 5	65 ± 5	65 ± 5	63 ± 5
ABRASION INDEX	ISO 4649-2002 (DIN 53516)	mm ³ (max.)	250	200	200	250	250
OZONE	ASTM D1171	Pass / Fail	Pass	Pass	Pass	Pass	Pass
TEMPERATURE RANGE		Fahrenheit (°F)	-40 to 150*	-40 to 150*	-30 to 400*	-40 to 150*	-40 to 150*
		Celsius (°C)	-40 to 65*	-40 to 65*	-34 to 204*	-40 to 65*	-40 to 65*
OIL SWELL	D-471	% (max.)	100	90	N/A	10	10
STATIC CONDUCTIVE (≤ 300 MΩ)	ISO 284	YES / NO	NO	NO	NO	NO	YES

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COVER COMPOUNDS

FLAME-RESISTANT SERVICE

FR—A compound that meets requirements of the ASTM D-378 Part 18 flame retardant test. Suited for below ground applications where fire retardant belt is required; allowed by USBM and MSHA to be used underground, as long as it is not a coal mining operation.

FR-MOR (Moderately Oil Resistant)—A compound that meets requirements of the ASTM D-378 Part 18 flame retardant test and delivers moderate of oil resistance for oily coal or coke applications or product treated with oily additives for dust suppression.

FOOD GRADE SERVICE

WFG-SBR (White Food Grade SBR)—A compound designed for handling consumable food products, or for products that will be consumed by livestock. SBR offers good abrasion resistance. Cover meets FDA requirements and is viable for use with non-oily products such as sugar, dehydrated potatoes, flour.

SPECIAL PURPOSE

TPG 45D (Tan Pure Gum Non Marking)—With an exceptionally high coefficient of friction, this tough compound is excellent where very high cut and gouge resistance, combined with a high demand for gripping material is a must, and where abrasion is a factor. Non marking quality is also ideal for the timber products industry. Available in a 45-durometer standard.

TAN SBR 60D, TAN SBR 45D (Tan Non Marking SBR)—With good tear and abrasion resistance, this non-marking SBR is good for handling products where marking is not permitted, such as paper handling, finished aluminum parts, planers, sanders, lumber, and packaged goods. The coefficient of friction grips product even at steep inclines, yet is an economical alternative to TPG. Available in a standard 60-durometer and a softer 45-durometer option.

COMPOUND (INTERNATIONAL DESIGNATION)

	TEST STANDARD	UNIT	FR	FR-MOR	HT-SBR	WFG-SBR
TENSILE	ISO 37	PSI (min.)	2000	2000	2000	2000
		MPa (min.)	13.8	13.8	13.8	13.8
ELONGATION	ISO 37	% (min.)	450	450	450	450
HARDNESS	ISO 48	Shore A	60 ± 5	65 ± 5	60 ± 5	60 ± 5
ABRASION INDEX	ISO 4649-2002 (DIN 53516)	mm ³ (max.)	200	200	250	250
OZONE	ASTMD1171	Pass / Fail	Pass	Pass	Pass	Pass
TEMPERATURE RANGE		Fahrenheit (°F)	-40 to 150*	-40 to 150*	-40 to 150*	-40 to 150*
		Celsius (°C)	-40 to 65*	-40 to 65*	-40 to 65*	-40 to 65*
FIRE RETARDANT	MSHA CFR Title 30, Part 14		NO	NO	N/A	N/A
	ASTM D-378 Part 18		YES	YES	NO	N/A
OIL SWELL (100°C - 72 HRS. IN IRM 903 OIL)	ASTM D-471	% (max.)	N/A	90		N/A
STATIC CONDUCTIVE (≤ 300 MΩ)	ISO 284	YES / NO	YES	YES		NO

* Maximum conveyed material temperature. Cycle times, belt cooling and other conditions may affect belt performance & life cycle.

COMPOUND (INTERNATIONAL DESIGNATION)

	TEST STANDARD	UNIT	TPG 45D	Tan SBR 60D	Tan SBR 45D
TENSILE	ISO 37	PSI (min.)	3000	2000	1600
		MPa (min.)	20.7	13.8	11.0
ELONGATION	ISO 37	% (min.)	500	450	450
HARDNESS	ISO 48	Shore A	45 ± 5	60 ± 5	45 ± 5
ABRASION INDEX	ISO 4649-2002 (DIN 53516)	mm ³ (max.)	250	250	200
OZONE	ASTMD1171	Pass / Fail	Pass	Pass	Pass
TEMPERATURE RANGE		Fahrenheit (°F)	-40 to 150*	-40 to 150*	-40 to 150*
		Celsius (°C)	-40 to 65*	-40 to 65*	-40 to 65*
OIL SWELL (100°C - 72 HRS. IN IRM 903 OIL)	ASTMD-471	% (max.)	N/A	N/A	N/A
STATIC CONDUCTIVE (≤ 300 MΩ)	ISO 284	YES / NO	NO	NO	NO

* Maximum conveyed material temperature. Cycle times, belt cooling and other conditions may affect belt performance & life cycle.