

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—Premium compound; exceeds ARPM Grade 2 specs. Yields superior abrasion, great tensile, great tear and elongation values. Combine with a Legend carcass for a superior 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 the semi-truck tire compound, ready for the long haul.

GI-P (Grade I Premium)—Premium compound for heavy rock or high-impact applications, with high elongation and tensile to prevent tearing. Couple with a Legend Polyester/Nylon carcass for an exceptional 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 resistance than is found in most MORs – and even some SORs.

GHS (Grain Handler Supreme)—The Grain Handler Supreme features a pure 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 very 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 asphalt industry; offers excellent abrasion, while maintaining required oil resistance. Heat resistant up to 350°F, but only achievable when heavy oil is present; not rated above 225°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 225*	-50 to 225*	-40 to 225*	-50 to 225*	-40 to 225*	-40 to 225*
		Celsius (°C)	-40 to 107*	-46 to 107*	-40 to 107*	-46 to 107*	-40 to 107*	-40 to 107*
OIL SWELL (100°C - 72 HRS. IN IRM 903 OIL)	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	HT-SBR
TENSILE	ISO 37	PSI (min.)	1800	2000	1800	1800	2000
		MPa (min.)	12.4	12.4	12.4	12.4	13.8
ELONGATION	ISO 37	% (min.)	400	450	450	450	450
HARDNESS	ISO 48	Shore A	60 ± 5	60 ± 5	65 ± 5	65 ± 5	60 ± 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 180*	-40 to 225*	-30 to 400*	-40 to 225*	-20 to 225*
		Celsius (°C)	-40 to 82*	-40 to 107*	-34 to 204*	-40 to 107*	-29 to 107*
OIL SWELL (100°C - 72 HRS. IN IRM 903 OIL)	ASTM D-471	% (max.)	100	90	N/A	10	N/A
STATIC CONDUCTIVE (≤ 300 MΩ)	ISO 284	YES / NO	NO	NO	NO	NO	NO

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COVER COMPOUNDS

FLAME-RESISTANT SERVICE

FR—A compound that meets requirements of the ASTM D-378 Part 13.2 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 13.2 flame retardant test and delivers a degree of oil resistance for 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 consumable livestock. SBR offers good abrasion resistance in the absence of carbon black. Meets FDA requirements and is viable for use with non-oily products such as sugar, dehydrated potatoes, flour.

WFG-NGR (White Food Grade Nitrile)—A compound for use in handling consumable food products, or for products that will be consumed by consumable livestock, both having high oil content. A pure Nitrile compound, it offers the highest level of oil resistance to handle meat, soybean meal and precooked potato products. Good abrasion, cut and gouge resistance, and meets FDA requirements.

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.

Blue CBX NBR (Carboxylated Nitrile)—One of the toughest compounds around, CBX NBR offers excellent cut and gouge resistance and excellent abrasion resistance. For use with a variety of products, from corrugated boxes to scrap iron. Also offers excellent oil resistance to most oils. Available in Rust or Blue.

COMPOUND (INTERNATIONAL DESIGNATION)

	TEST STANDARD	UNIT	FR	FR-MOR	GHS	WFG-SBR	WFG-NBR
TENSILE	ISO 37	PSI (min.)	2000	2000	1800	2000	1700
		MPa (min.)	13.8	13.8	12.4	13.8	11.7
ELONGATION	ISO 37	% (min.)	450	450	450	450	450
HARDNESS	ISO 48	Shore A	60 ± 5	65 ± 5	63 ± 5	60 ± 5	67 ± 5
ABRASION INDEX	ISO 4649-2002 (DIN 53516)	mm ³ (max.)	200	200	250	250	250
OZONE	ASTMD1171	Pass / Fail	Pass	Pass	Pass	Pass	Pass
TEMPERATURE RANGE		Fahrenheit (°F)	-40 to 225*	-40 to 225*	-50 to 225*	-40 to 225*	-30 to 225*
		Celsius (°C)	-40 to 107*	-40 to 107*	-45 to 107*	-40 to 107*	-34 to 107*
FIRE RETARDANT	MSHA CFR Title 30, Part 14		NO	NO	NO	N/A	N/A
	ASTM D-378 Part 13.2		YES	YES	YES	N/A	N/A
OIL SWELL (100°C - 72 HRS. IN IRM 903 OIL)	ASTM D-471	% (max.)	N/A	90	10	N/A	10
STATIC CONDUCTIVE (≤ 300 MΩ)	ISO 284	YES / NO	YES	YES	YES	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	TPG 45D	Tan SBR 60D	Tan SBR 45D	Blue CBX/NBR
TENSILE	ISO 37	PSI (min.)	3000	2000	1600	2000
		MPa (min.)	20.7	13.8	11.0	13.8
ELONGATION	ISO 37	% (min.)	500	450	450	550
HARDNESS	ISO 48	Shore A	45 ± 5	60 ± 5	45 ± 5	60 ± 5
ABRASION INDEX	ISO 4649-2002 (DIN 53516)	mm ³ (max.)	250	250	200	150
OZONE	ASTMD1171	Pass / Fail	Pass	Pass	Pass	Pass
TEMPERATURE RANGE		Fahrenheit (°F)	-40 to 180*	-30 to 225*	-40 to 225*	-20 to 225*
		Celsius (°C)	-40 to 82*	-34 to 107	-40 to 107*	-29 to 107*
OIL SWELL (100°C - 72 HRS. IN IRM 903 OIL)	ASTMD-471	% (max.)	N/A	N/A	N/A	10
STATIC CONDUCTIVE (≤ 300 MΩ)	ISO 284	YES / NO	NO	NO	NO	NO

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