

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 MQ) | 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 MQ) | ISO 284 | YES / NO | NO | NO | NO | NO | NO |

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

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.