

X_BUTYL® HALOBUTYL RUBBER FOR CONVEYOR BELT APPLICATIONS



Conveyor belting systems can vary widely in their use and design depending on the load and distance required to convey materials.

High performance cover compounds comprised of ARLANXEO chlorobutyl rubber may be adopted for applications where high temperature resistance and/or food contact is necessary.

Compounds based on chlorinated X_Butyl® with heat resistant cure systems can be designed to provide good product stability during high temperature operations. The addition of sulfur to the cure system can lead to reduced aging resistance. As well, while the replacement of the chlorobutyl with natural rubber can improve the tensile strength and abrasion resistance it is at the expense of heat and chemical resistance.

ARLANXEO PRODUCT PROPERTIES

| | | Mooney [ML(1+8)@125 °C, MU] | Halogen [wt%] | Ash [wt%] | Volatiles [wt%] |
|--------------------|------------------|--------------------------------|------------------|--------------|--------------------|
| Bromobutyl Rubber | X_Butyl® BB 2030 | 32 | 1.8 | <0.7 | <0.7 |
| | X_Butyl® BB 2040 | 39 | 1.8 | <0.7 | <0.7 |
| | X_Butyl® BB X2 | 46 | 1.8 | <0.7 | <0.7 |
| Chlorobutyl Rubber | X_Butyl® CB 1240 | 38 | 1.25 | <0.5 | <0.5 |

TYPICAL COMPOUND PROPERTIES:

| Ingredient (phr) | A | B |
|------------------|-----|-----|
| X_Butyl® CB 1240 | 100 | 100 |
| Carbon Black | 50 | 50 |
| MgO | 0.5 | 0.5 |
| Paraffinic Oil | 5 | 5 |
| Antioxidant | 1 | 1 |
| Resin | 3 | 3 |
| Stearic Acid | 1 | 1 |
| ZnO | 5 | 2 |
| Accelerators | 3 | 2 |
| Sulfur | | 2 |

| Mechanical Properties* | Unit | A | B |
|-----------------------------------|--------------|------|------|
| Hardness | (ShA) | 67 | 69 |
| Tensile Strength | (MPa) | 13.2 | 16.6 |
| Elongation at break | (%) | 600 | 550 |
| Tear Strength (Die C) | (kN/m) | 39.3 | 34.7 |
| Aged Properties (168 hrs, 125 °C) | | | |
| Hardness | (pts change) | 9 | 7 |
| Tensile Strength | (% change) | -8 | -33 |
| Elongation at break | (% change) | -57 | -57 |

*These items are provided as general information only. They are approximate values and are not considered part of the product specifications. Please contact your regional representative for additional information.

TIRE AND SPECIALTY RUBBERS GLOBAL FOOTPRINT



WE ARE HAPPY TO SUPPORT YOUR BUSINESS

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Note: The information contained in this publication is current as of September 2018.

Please contact ARLANXEO USA LLC to determine if this publication has been revised.