

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 [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

TIRE AND SPECIALTY RUBBERS GLOBAL FOOTPRINT



WE ARE HAPPY TO SUPPORT YOUR BUSINESS

NAFTA

Technical Service

Judy Douglas

E-mail: judy.douglas@arlanxeo.com

Phone: +1 412 809 3547

Sales

John Sawaya

E-mail: john.sawaya@arlanxeo.com

Phone: +1 412 809 1530

EMEA

Technical Service

Luc ter Bogt

E-mail: luc.terbogt@arlanxeo.com

Phone: +49 221 8885 3998

Sales

Marco Eira

E-mail: marco.eira@arlanxeo.com

Phone: +41 26 422 8354

APAC

Technical Service

Esther Han

E-mail: esther.han@arlanxeo.com

Phone: +65 6725 5709

Sales

JooSang Kim

E-mail: joosang.kim@arlanxeo.com

Phone: +65 6725 5872

LATAM

Technical Service

Marcus Moutinho

E-mail: marcus.moutinho@arlanxeo.com

Phone: +55 21 2677 1219

Sales

Sergio Botafogo

E-mail: sergio.botafogo@arlanxeo.com

Phone: +55 21 2677 1344

Please contact us for additional information or visit us at
www.tsr.arlanxeo.com

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Note: The information contained in this publication is current as of May 2017.

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