



X_BUTYL® HALOBUTYL FOR TIRE INNER LINERS

The inner liner is an essential component of present day tires. This is especially true for tires of radial construction and intended for tubeless application.

Halobutyl rubber has many unique properties including:

- very low permeability to gases
- cure compatibility with unsaturated elastomers
- high damping
- low temperature flexibility

Using halobutyl rubber within the inner liner helps the tire to maintain proper inflation pressure in order to provide lower rolling resistance compared to conditions where it is under inflated. Furthermore, the tire needs the correct pressure to ensure that the tire performs well and operates under safe conditions.

ARLANXEO brominated and chlorinated X_Butyl® are well-suited for the production of a highly effective inner liner layer that helps to keep the pressure at the correct level for a longer service life.

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 FORMULATION: S-CURE

Ingredient	phr
X_Butyl® BB 2030	100
Carbon Black	60
Stearic Acid	1
Tackifying Resin	4
Paraffinic Oil	7
Accelerator	1.3
Zinc Oxide	3
Sulfur	0.5

Mechanical Properties	Unit	Typical Value*
Hardness	(ShA)	55
Tensile Strength	(MPa)	11
Modulus 100%	(MPa)	1.5
Modulus 300%	(MPa)	5.5
Elongation at break	(%)	660
Tear Strength (Die C)	(kN/m)	35
DeMattia Crack Growth @ 300%	(kcycles)	>250

*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 May 2017.

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