

X_BUTYL® HALOBUTYL FOR MEDICAL APPLICATIONS: DIAMINE CURE



The demands by the medical and pharmaceutical sectors on elastomers and their compounds and vulcanizates are extremely high. Halogenated X_Butyl® is widely used in pharmaceutical rubber products, such as closures for infusion containers, injection vials, lyophilization and blood collection tubes.

Manufactured to stringent requirements, pharmaceutical closures often come into direct contact with pharmaceutical products, either dissolved or in other forms. Therefore, they must comply with existing

standards and regulations relating to the contact of rubber articles with pharmaceuticals. Halogenated X_Butyl® is generally preferred, because they ensure adequate protection of sterile pharmaceutical products against external contamination during storage and use. Halogenated X_Butyl® grades are also found as O-rings and gaskets in a variety of aerosol containers, personal care and cosmetic spray pumps and inhalers. In addition, they are used in plungers for applications such as infusion pumps, pre-filled syringes, insulin injectors and dental anesthetics.

PRODUCT PROPERTIES

Grade	X_Butyl® BB 2030	X_Butyl® BB X2
Mooney Viscosity (ML 1+ 8, 125 °C, MU)	32	46
Halogen (wt%)	1.8	1.8
Stabilizer (wt%)	1.3	1.3

TYPICAL COMPOUND FORMULATION: S-CURE

Ingredient	phr
X_Butyl® BB 2030	100
Calcined Clay	85
Process Aide	5
Hexamethylene Diamine Carbamate	0.6

Mechanical Properties	Unit	Typical Value*
Hardness	(ShA)	45
Tensile Strength	(MPa)	4.8
Modulus 100%	(MPa)	2.3
Modulus 300%	(MPa)	4.7
Elongation at break	(%)	400
Compression Set (24 h/70 °C)	(%)	25

*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.