

EXXON™ BROMOBUTYL

Fast Cure Rate Grades

Product Sales Specification

Effective: April 21, 2009

Description

Exxon™ Bromobutyl is a brominated copolymer of isobutylene and isoprene. The product has a characteristic specific gravity of 0.93. The product form is offwhite to amber bales.

Product Specifications

Grades		2211	2244
Mooney viscosity			
ML 1+8 (125°C)		32 ± 5	46 ± 5
Antioxidant (non-staining)	wt%	0.02 min	0.02 min
Functional Bromine	mol%	1.08 ± 0.15	1.08 ± 0.15
Stabilizer (Epoxidized soybean oil)	wt%	1.3 ± 0.3	1.3 ± 0.3
Water	wt%	0.3 max	0.3 max

Performance Specifications

Cure Characteristics

MH	dN.m	36.0 ± 7.0	43.0 ± 7.0
ML	dN.m	12.0 ± 4.5	16.0 ± 4.5
ts2	mins	4.0 ± 2.5	3.5 ± 2.5
t'50	mins	6.0 ± 3.0	6.0 ± 3.0
t'90	mins	8.5 ± 4.0	8.0 ± 4.0

Test Methods

Mooney viscosity	ASTM D 1646, modified	MV 2000 or equivalent.
Antioxidant	ExxonMobil test method	
Functional Bromine	ExxonMobil test method	
Stabilizer	ExxonMobil test method	
Water	ExxonMobil test method	
Bromobutyl standard compound	ASTM D 3958, modified	
Cure characteristics	ASTM D 2084, modified	Rheometer ODR 2000.

Exxon Bromobutyl is registered in the Toxic Substance Control Act inventory under CAS number 68441-14-5.

All ASTM methods shown may be modified by the ExxonMobil laboratory.

Product sales specifications were developed pursuant to ExxonMobil testing and sampling procedures. Procedures available upon request.

Specification and/or procedures are subject to change without notice unless otherwise agreed in writing.

ExxonMobil Chemical products, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. Please contact us for further information prior to using any ExxonMobil Chemical product in any medical application.

©2009 Exxon Mobil Corporation. To be certain the user is advised to observe and observe the document, the user may review, distribute, export, modify, this copyright document, any of which are prohibited, including all of its features, features, operations, and other information. You may not copy this document to a Web site. ExxonMobil Chemical is not liable for the copyright or other rights. All rights are reserved. The information in this document is for informational purposes only and is not intended to be used in any medical application. Without the prior written consent of ExxonMobil Chemical, the user is not permitted to use this information in any way. The user is solely responsible for all distribution of this information and for any use of this information in any way. The user is not responsible for any use of this information in any way. There is no endorsement of any product or service, and we explicitly disclaim any liability for any use of this information. The terms "ExxonMobil Chemical" or "ExxonMobil Chemical" and any other trademarks of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any other trademarks, including the ExxonMobil logo, are trademarks of ExxonMobil Chemical Company. All other trademarks are the property of their respective owners.