



## Sales Specification

### Exxon™ Bromobutyl 2244

#### Rubber

#### Product Description

Exxon™ bromobutyl rubber 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.  
Fast Cure Rate Grade

#### General

Revision Date • March 1, 2013

Properties	Target	Minimum	Maximum	Unit	Test Based On
Mooney Viscosity <sup>1</sup> (ML 1+8, 125°C)	46	41	51	MU	ASTM D1646 (mod)
Antioxidant (non-staining)	--	0.02	0.12	wt%	ExxonMobil Method
Functional Bromine	1.08	0.93	1.23	mol%	ExxonMobil Method
Calcium	0.12	0.08	0.16	wt%	ExxonMobil Method
Stabilizer (Epoxidized soybean oil)	1.3	1.0	1.6	wt%	ExxonMobil Method
Water	--	--	0.3	wt%	ExxonMobil Method

Cure Characteristics (Rheometer)	Target	Minimum	Maximum	Unit	Test Based On
MH <sup>2</sup>	45.0	38.0	52.0	dN·m	ASTM D2084 (mod)
ML <sup>2</sup>	18.0	13.5	22.5	dN·m	ASTM D2084 (mod)
ts2 <sup>2</sup>	3.5	1.0	6.0	min	ASTM D2084 (mod)
t'50 <sup>2</sup>	6.0	3.0	9.0	min	ASTM D2084 (mod)
t'90 <sup>2</sup>	9.0	5.0	13.0	min	ASTM D2084 (mod)

#### Legal Statement

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

Exxon™ bromobutyl rubber is registered in the Toxic Substance Control Act Inventory under CAS number 68441-14-5.

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.



Sales Specification  
ExxonMobil Chemical Exxon™ Bromobutyl 2244  
Rubber

Notes

<sup>1</sup> MV 2000 or equivalent

<sup>2</sup> Rheometer ODR 2000 Standard compound: ASTM D3958 (mod)

For additional technical, sales and order assistance:

Worldwide and the Americas

ExxonMobil Chemical Company  
13501 Katy Freeway  
Houston, TX 77079-1398  
USA  
1-281-870-6050

Asia Pacific

ExxonMobil Chemical Asia Pacific  
1 HarbourFront Place  
#06-00 HarbourFront Tower One  
Singapore 098633  
+86-21-24173999

Europe, Middle East and Africa

ExxonMobil Chemical Europe  
Hermeslaan 2  
1831 Machelen, Belgium  
420-239-016-274

©2013 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Chemical" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

**Flexilis**  
PVT. LTD.  
LET'S GO. LET'S GROW