

# Exxon™ Bromobutyl 2211

## Rubber

### Product Description

Exxon™ bromobutyl 2211 rubber is a brominated copolymer of isobutylene and isoprene. Exxon™ bromobutyl is a trademark designating a series of polymers made by brominating isobutylene/isoprene copolymers (butyl).

### Key Features

Due to the low amount of bromine present, bromobutyl is faster curing than standard butyl, is more heat stable and is more compatible with highly unsaturated rubbers. The Exxon™ bromobutyl 2211 rubber is designed as a fast cure product. The most important end uses are in tubeless tire innerliners, tire sidewalls, pharmaceutical stoppers and mechanical goods.

### General

Availability <sup>1</sup>	<ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> </ul>	<ul style="list-style-type: none"> <li>Europe</li> <li>Latin America</li> </ul>	<ul style="list-style-type: none"> <li>North America</li> </ul>
Appearance	<ul style="list-style-type: none"> <li>Uniform, white to light amber in color; free of contamination</li> </ul>		
Form(s)	<ul style="list-style-type: none"> <li>Bale</li> </ul>		
Revision Date	<ul style="list-style-type: none"> <li>02/06/2023</li> </ul>		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.93 g/cm <sup>3</sup>	0.93 g/cm <sup>3</sup>	ASTM D297
Mooney Viscosity <sup>2</sup> (ML 1+8, 257°F (125°C))	32 MU	32 MU	ASTM D1646 (mod)
Antioxidant (non-staining)	0.02 wt% min	0.02 wt% min	ExxonMobil Method
Bromine	2.0 wt%	2.0 wt%	ExxonMobil Method
Calcium	0.13 wt%	0.13 wt%	ExxonMobil Method
Stabilizer	1.3 wt%	1.3 wt%	ExxonMobil Method
Water	0.3 wt% max	0.3 wt% max	ExxonMobil Method
Volatiles	< 0.6 wt%	< 0.6 wt%	ASTM D5668 (mod)
Ash	< 0.4 wt%	< 0.4 wt%	ASTM D5667 (mod)

Cure Characteristics (Rheometer)	Typical Value (English)	Typical Value (SI)	Test Based On
ts2 <sup>3</sup>	3.7 min	3.7 min	ASTM D5289
t'50 <sup>3</sup>	3.9 min	3.9 min	ASTM D5289
t'90 <sup>3</sup>	5.9 min	5.9 min	ASTM D5289
Minimum Torque <sup>3</sup>	2.2 dN·m	2.2 dN·m	ASTM D5289
Maximum Torque <sup>3</sup>	6.5 dN·m	6.5 dN·m	ASTM D5289

### Additional Information

Storage: All inventory must be stored in dry conditions in an enclosed warehouse, protected from contaminants, and outdoor light exposure (including during shipment and transfers). Shipping Policy: 2 years from date of production. Packaging: 34 +/-0.68kg bales in dispersible EVA film or release film, in metal crates of 36 bales (1224 kgs) or 30 bales (1020kgs). For material with dispersible film wrap, Vicat softening point less than or equal to 85°C (ASTM 1525-87).

### Legal Statement

For detailed product compliance information, please contact customer Service.

This product is not intended for use in food contact applications.

This product, including the product name, shall not be used or tested in any medical application without prior written acknowledgement of ExxonMobil Chemical as to the intended use.

**Exxon™ Bromobutyl 2211**  
Rubber**Notes**

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

<sup>2</sup> MV 2000 or equivalent

<sup>3</sup> Rotor less curemeter (cure conditions - 160°C, 30 min; preheat - none; oscillation - 1.7 Hz, Arc  $\pm 0.5^\circ$ ), Standard compound : ASTM D3958 (Test Formulation - Exxon™ bromobutyl 2211 (100 phr), Carbon black IRB 8 (40 phr), Zinc Oxide IRM 91 (5 phr), Stearic Acid IRM 021 (1 phr), mill mixed compound)

For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

©2024 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 Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

[exxonmobilchemical.com](http://exxonmobilchemical.com)