# EXXON<sup>™</sup> BROMOBUTYL

Regular Cure Rate Grades

## **Product Sales Specification**

Effective: August 1998

### 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 white to light amber bales.

#### Product Specifications

Grades		2222	2235	2255
Mooney viscosity				
ML 1+ 8 (125°C)		$32\pm5$	$39\pm5$	$46\pm5$
Antioxidant (non-staining)	wt%	0.02 min	0.02 min	0.02 min
Bromine	wt%	$2.0\pm0.2$	$2.0\pm0.2$	$2.0\pm0.2$
Stabilizer (Epoxidized soybean oil)	wt%	$1.3\pm0.3$	$1.3\pm0.3$	$1.3\pm0.3$
Water	wt%	0.3 max	0.3 max	0.3 max

#### **Performance Specifications**

Cure Characteristics				
MH	dN.m	$34.0\pm7.0$	$\textbf{37.0} \pm \textbf{7.0}$	$41.0\pm7.0$
ML	dN.m	$12.0\pm4.5$	$14.0\pm4.5$	$16.0\pm4.5$
ts2	mins	$4.0\pm2.5$	$4.0\pm2.5$	$4.0\pm2.5$
ť'50	mins	$8.0\pm3.0$	$7.5\pm3.0$	$7.5\pm3.0$
t'90	mins	$10.5\pm4.0$	$10.0\pm4.0$	10.0 ± 4.0

#### **Test Methods**

Mooney viscosity	ASTM D 1646, modified	MV 2000 or equivalent.
Antioxidant	ExxonMobil test method	
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.

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ExonMobil Chemical

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