# **EXXON™ BROMOBUTYL**



Fast Cure Rate Grades

## **Product Sales Specification**

Effective: July 1 2008

### **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)		$32\pm 5$	$46\pm5$
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	$36.0\pm7.0$	$43.0\pm7.0$
ML	dN.m	$12.0 \pm 4.5$	16.0 ± 4.5
ts2	mins	$4.0\pm2.5$	$3.5\pm2.5$
t'50	mins	6.0 ± 3.0	$6.0 \pm 3.0$
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		

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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