

EXXON™ BROMOBUTYL

Regular 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 white to light amber bales.

Product Specifications

Grades		2222	2235	2255
Mooney viscosity				
	ML 1+ 8 (125°C)	32 ± 5	39 ± 5	46 ± 5
Antioxidant (non-staining)	wt%	0.02 min	0.02 min	0.02 min
Functional Bromine	mol%	1.03 ± 0.10	1.03 ± 0.10	1.03 ± 0.10
Stabilizer (Epoxidized soybean oil)	wt%	1.3 ± 0.3	1.3 ± 0.3	1.3 ± 0.3
Water	wt%	0.3 max	0.3 max	0.3 max

Performance Specifications

Cure Characteristics				
MH	dN.m	34.0 ± 7.0	37.0 ± 7.0	41.0 ± 7.0
ML	dN.m	12.0 ± 4.5	14.0 ± 4.5	16.0 ± 4.5
ts2	mins	4.0 ± 2.5	4.0 ± 2.5	4.0 ± 2.5
t'50	mins	8.0 ± 3.0	7.5 ± 3.0	7.5 ± 3.0
t'90	mins	10.5 ± 4.0	10.0 ± 4.0	10.0 ± 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.

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