

Exxon™ Bromobutyl 6222

Rubber

Product Description

Exxon™ bromobutyl rubber is a brominated copolymer of isobutylene and isoprene. The product has a characteristic specific gravity of 0.94. The product form is off white to amber bales.

Properties	Target	Minimum	Maximum	Unit	Test Method
Mooney Viscosity ¹ (ML 1+8, 125°C)	32	27	37	MU	ASTM D1646 (mod)
Antioxidant (non-staining)	--	0.05	0.13	wt%	ExxonMobil Method
Bromine	2.4	2.2	2.6	wt%	ExxonMobil Method
Calcium	0.165	0.135	0.195	wt%	ExxonMobil Method
Stabilizer					ExxonMobil Method
Epoxidized soybean oil	1.5	1.2	1.8	wt%	ExxonMobil Method
Water	--	--	0.3	wt%	ExxonMobil Method

Cure Characteristics (Rheometer)	Target	Minimum	Maximum	Unit	Test Method
MH ²	36.0	29.0	43.0	dN·m	ASTM D2084 (mod)
ML ²	12.5	8.0	17.0	dN·m	ASTM D2084 (mod)
ts ²	4.0	1.5	6.5	min	ASTM D2084 (mod)
t'50 ²	7.0	4.0	10.0	min	ASTM D2084 (mod)
t'90 ²	9.0	6.0	12.0	min	ASTM D2084 (mod)

Legal Statement

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

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Notes

¹ MV 2000 or equivalent. Sample milled at 140°C ± 30°C prior to testing.

² Rheometer ODR 2000 Standard compound: ASTM D3958 (mod)

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