

Exxon™ Chlorobutyl 5066

Rubber

Product Description

Exxon™ chlorobutyl rubber is a chlorinated copolymer of isobutylene and isoprene, including a styrene block copolymer branching agent. The product has a characteristic specific gravity of 0.93. The product form is off-white to yellow bales.

Properties	Target	Minimum	Maximum	Unit	Test Method
Mooney Viscosity ¹ (ML 1+8, 125°C)	40	35	45	MU	ASTM D1646 (mod)
Antioxidant (non-staining)	--	0.05	0.13	wt%	ExxonMobil Method
Chlorine	1.5	1.4	1.6	wt%	ExxonMobil Method
Calcium	0.095	0.065	0.125	wt%	ExxonMobil Method
Water	--	--	0.3	wt%	ExxonMobil Method

Cure Characteristics (Rheometer)	Target	Minimum	Maximum	Unit	Test Method
MH ²	46.0	39.0	53.0	dN·m	ASTM D2084 (mod)
ML ²	16.0	11.5	20.5	dN·m	ASTM D2084 (mod)
ts ₂ ²	2.0	0.0	4.0	min	ASTM D2084 (mod)
t'50 ²	4.0	1.0	7.0	min	ASTM D2084 (mod)
t'90 ²	10.0	7.0	13.0	min	ASTM D2084 (mod)

Legal Statement

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

Exxon™ chlorobutyl rubber is registered in the Toxic Substance Control Act Inventory under CAS number 68081-82-3.

Unless otherwise specified herein: data were prepared pursuant to ExxonMobil's sampling and testing procedures in effect at time of production. Some values shown may result from interpolation or correlation of other data. Applicable sampling and testing methods are available upon request and are subject to change without notice unless otherwise agreed in writing. ExxonMobil Chemical products, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. Please contact us for further information prior to using any ExxonMobil Chemical product in any medical application.

Notes

¹ MV 2000 or equivalent

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

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