

Product Specification

LANXESS BROMOBUTYL X2

Product Description A non-staining, brominated isobutylene - isoprene copolymer with high Mooney viscosity. Product stored according to proper instructions⁽¹⁾ should be used within 2 years from date of manufacture.

Raw Polymer Properties	Property	Range	Test Method
	Mooney viscosity, ML 1+8 (125°C) (MU)	46 ± 4	ASTM D 1646 ⁽²⁾ ⁽³⁾
	Bromine (wt %)	1.80 ± 0.20	
	Volatile matter (wt %)	0.7 max.	ASTM D 5668 ⁽²⁾
	Ash (wt %)	0.7 max.	ASTM D 5667 ⁽²⁾ ⁽³⁾
	Antioxidant (non-staining) (wt %)	0.03 min.	⁽³⁾
	Stabilizer (wt %)	1.3 ± 0.3	⁽³⁾

Cure ⁽²⁾⁽³⁾⁽⁴⁾ Characteristics	Property	Range	Test Method
	Maximum torque, M _H (dN.m)	14.3 ± 2.2	ASTM D 5289 ⁽²⁾
	Minimum torque, M _L (dN.m)	5.5 ± 0.8	ASTM D 5289 ⁽²⁾
	Cure time (90%), t _{c-90} (min)	9.0 ± 2.2	ASTM D 5289 ⁽²⁾

Other Product Features	Property	Typical Value	Test Method
	Specific gravity	0.93	
	Color	Off white	
	Cure Characteristics ⁽⁴⁾		
	Scorch time t _{s1} (min)	2.7	ASTM D 5289 ⁽²⁾
	Film wrap		
	Dispersible film; Vicat Point (°C)	80 max.	ASTM D 1525 ⁽²⁾
	Strippable film; Melting point (°C)	105 max.	ASTM D 3418

⁽¹⁾ See Material Safety Data Sheet

⁽²⁾ Equivalent procedures:

ASTM D 1525 = ISO 306	ASTM D 1646 = ISO 289
ASTM D 5289 = ISO 6502	ASTM D 5667 = ISO 247
ASTM D 5668 = ISO 248	ASTM D 3958 = ISO 7663

⁽³⁾ LANXESS standard method available upon request

⁽⁴⁾ Rheometric properties determined on D3958 compound (MIM mixed) as follows:

LANXESS BROMOBUTYL 100 (phr)	
IRB #7 black	40
NBS Stearic acid	1
NBS Zinc oxide	5

Rotorless cure meter conditions: 160°C, 1 degree arc, 1.7 Hz die oscillation, 30 min running time, no preheat

Health and Safety Information: Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling the LANXESS products mentioned in this publication. For materials mentioned which are not LANXESS products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be followed. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., *material safety data sheets and product labels*. Consult your LANXESS Corporation representative or contact the Product Safety and Regulatory Affairs Department at LANXESS.

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