

Product Specification

LANXESS BROMOBUTYL 2040

Product Description A non-staining, brominated isobutylene - isoprene copolymer with medium 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)	39 ± 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)	13.4 ± 2.2	ASTM D 5289 ⁽²⁾
	Minimum torque, M _L (dN.m)	4.9 ± 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

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