

LG Chemical SBR 1789 High Acrylonitrile Polymer

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE)

Material Notes:

Description: SSBR 1789 is an oil extended cold polymerization SBR with 37.5 parts of Low PCA (RAE type) oil and styrene-butadiene copolymer of 40% bound styrene. Raw materials for this product are carefully chosen for the best physical properties. The aromatic oil in SBR 1789 is an eco-friendly type (RAE) which meets the European legislation on extender oil. Applications: SBR 1789 can be used in tire tread, camelback and other industrial products. CAS No: 9003-55-8 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-SBR-1789-High-Acrylonitrile-Polymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 g/cc	
Volatiles	0.20 %	0.20 %	
Mooney Viscosity	51 @Temperature 100 Â°C	51 @Temperature 212 Â°F	ML 1+4
Ash	0.20 %	0.20 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	24.7 MPa @Temperature 145 Â°C, Time 2100 sec	3580 psi @Temperature 293 Â°F, Time 0.583 hour	ASTM D412
Elongation at Break	620 % @Temperature 145 Â°C, Time 2100 sec	620 % @Temperature 293 Â°F, Time 0.583 hour	ASTM D412
300% Modulus	0.0111 GPa @Temperature 145 Â°C, Time 2100 sec	1.61 ksi @Temperature 293 Â°F, Time 0.583 hour	ASTM D412

Chemical Properties	Metric	English	Comments
Styrene Content	40 %	40 %	Bound

Descriptive Properties	Value	Comments
Color	Dark Brown Bale	
Components	HAF	68.75, ASTM D3185
	SBR 1739	137.5, ASTM D3185

Descriptive Properties	Stearic Acid Value	1. ASTM D3185 Comments
	Sulfur	1.75, ASTM D3185
	TBBS	1.38, ASTM D3185
	ZnO	3, ASTM D3185
Oil Analysis	0.273	
Organic Acid	0.05	
Rheometer	16.8 min	t'90, 160°C, 1° Arc, ASTM D5289
	19.3 lb-in	MH, 160°C, 1° Arc, ASTM D5289
	3.0 lb-in	ML, 160°C, 1° Arc, ASTM D5289
	5.2 min	ts1, 160°C, 1° Arc, ASTM D5289
	9.5 min	t'50, 160°C, 1° Arc, ASTM D5289
Soap	0.001	

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