

LG Chemical SBR 1723 High Acrylonitrile Polymer

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

Material Notes:

Description: SBR 1723 is an oil extended cold polymerization SBR with 37.5 parts of Low PCA (PolyCyclic Aromatic) oil and styrene-butadiene copolymer of 23.5% bound styrene. Raw materials for this product are carefully chosen for the best physical properties. The aromatic oil in SBR 1723 is an eco-friendly type (TDAE) which meets the European legislation on extender oil. Applications: SBR 1723 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-1723-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	49 @Temperature 100 Â°C	49 @Temperature 212 Â°F	ML 1+4
Ash	0.10 %	0.10 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	28.4 MPa @Temperature 145 Â°C, Time 2100 sec	4120 psi @Temperature 293 Â°F, Time 0.583 hour	ASTM D412
Elongation at Break	600 % @Temperature 145 Â°C, Time 2100 sec	600 % @Temperature 293 Â°F, Time 0.583 hour	ASTM D412
300% Modulus	0.0110 GPa @Temperature 145 Â°C, Time 2100 sec	1.59 ksi @Temperature 293 Â°F, Time 0.583 hour	ASTM D412

Chemical Properties	Metric	English	Comments
Styrene Content	23.5 %	23.5 %	Bound

Descriptive Properties	Value	Comments
Color	Dark Brown Bale	
Components	HAF	68.75, ASTM D3185
	SBR 1723	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	15.1 min	t'90, 160Â°C, 1Â° Arc, ASTM D5289
	20.5 lb-in	MH, 160Â°C, 1Â° Arc, ASTM D5289
	3.5 lb-in	ML, 160Â°C, 1Â° Arc, ASTM D5289
	4.2 min	ts1, 160Â°C, 1Â° Arc, ASTM D5289
	9.0 min	t'50, 160Â°C, 1Â° Arc, ASTM D5289
Soap	0.001	

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