

LG Chemical SBR 1712 High Acrylonitrile Polymer

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

Material Notes:

Description: SBR 1712 is an oil extended cold polymerization SBR with 37.5 parts of highly 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 highly aromatic oil in SBR 1712 is a efficient plasticizer for high molecular weight SBR and it result in superior physical and processing properties compared to the other type of oil. Applications: SBR 1712 is produced to meet a rigid APF (Assured Processability Factor) and can be used to tire, camelback and other industrial products for the dark colored goods. 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-1712-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	0.20 %	0.20 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	24.0 MPa @Temperature 145 Â°C, Time 2100 sec	3480 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	0.0103 GPa @Temperature 145 Â°C, Time 2100 sec	1.49 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

Descriptive Properties	SBR 1712 Value	137.5, ASTM D3185 Comments
	Stearic Acid	1, ASTM D3185
	Sulfur	1.75, ASTM D3185
	TBBS	1.38, ASTM D3185
	ZnO	3, ASTM D3185
Oil Analysis	0.273	
Organic Acid	0.05	
Rheometer	15.0 min	t'90, 160Â°C, 1Â° Arc, ASTM D5289
	20 lb-in	MH, 160Â°C, 1Â° Arc, ASTM D5289
	3.3 lb-in	ML, 160Â°C, 1Â° Arc, ASTM D5289
	5.2 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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