

Styron Buna® SB 1739 Schkopau Cold Polymerized Emulsion Styrene Butadiene Rubber (E-SBR)

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

Material Notes:

Composition: Buna® SB 1739 Schkopau is manufactured by cold polymerization using mixed rosin acid /fatty acid soaps. In relation to solid rubber it is plasticized with 37.5 parts of TDAE oil which does comply with EU DIRECTIVE 2005/69/EC for use in tyres within the EU. A discoloring stabilizer is added during the production process. Application: Buna® SB 1739 Schkopau is a general purpose rubber. It can be processed in all sectors of the tyre and rubber industry. The main application is tyre production, imparting improved grip and handling performance due to its increased styrene content. Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-Buna-SB-1739-Schkopau-Cold-Polymerized-Emulsion-Styrene-Butadiene-Rubber-E-SBR.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	
Volatiles	0.30 % @Treatment Temp. 105 °C, Time 3600 sec	0.30 % @Treatment Temp. 221 °F, Time 1.00 hour	5 g in hot air oven; ASTM D5668
Mooney Viscosity	53 @Temperature 100 °C	53 @Temperature 212 °F	[MU] ML 1+4; ASTM D1646
Ash	0.080 %	0.080 %	ASTM D5667

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	22.7 MPa @Treatment Temp. 145 °C, Time 2100 sec	3290 psi @Treatment Temp. 293 °F, Time 0.583 hour	Cure; ASTM D412
Elongation at Break	510 %	510 %	ASTM D412
300% Modulus	0.0132 GPa	1.91 ksi	ASTM D412

Chemical Properties	Metric	English	Comments
Styrene Content	40 %	40 %	Bound; ASTM D5775

Descriptive Properties	Value	Comments
Composition	0.047	Organic Acid
	0.323	Total Extractables

Descriptive Properties Parameter	Value 17.8 min	Comments t _c (90), ASTM D5289
	16.8 dNm	MH, ASTM D5289
	2.3 dNm	ML, ASTM D5289
	5.5 min	t _s ² , test temperature 160Â°C; ASTM D5289
	8.1 min	t _c (50), ASTM D5289

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