

Styron Buna® SB 1723 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 1723 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 1723 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. Test Formulation (ASTM D 3185 based on IRB7 black): Polymer - 100.0 parts by mass IRB7 industry reference oil furnace carbon black - 50.0 parts by mass Zinc oxide - 3.0 parts by mass Sulphur - 1.75 parts by mass Stearic acid - 1.0 parts by mass N-tert-butyl-2-benzothiazole sulphenamide (TBBS) - 1.0 parts by mass Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-Buna-SB-1723-Schkopau-Cold-Polymerized-Emulsion-Styrene-Butadiene-Rubber-E-SBR.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 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	50 @Temperature 100 °C	50 @Temperature 212 °F	[MU] ML 1+4; ASTM D1646
Ash	0.050 %	0.050 %	ASTM D5667

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	22.0 MPa @Treatment Temp. 145 °C, Time 2100 sec	3190 psi @Treatment Temp. 293 °F, Time 0.583 hour	Cure; ASTM D412
Elongation at Break	460 %	460 %	ASTM D412
300% Modulus	0.0133 GPa	1.93 ksi	ASTM D412

Chemical Properties	Metric	English	Comments
Styrene Content	23.5 %	23.5 %	Bound; ASTM D5775

Descriptive Properties	Value	Comments
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Composition Descriptive Properties	Value	Organic Acid Comments
	0.323	Total Extractables
Rheometer	13.1 min	t _c (90), ASTM D5289
	17.3 dNm	MH, ASTM D5289
	2.4 dNm	ML, ASTM D5289
	5.1 min	t _s ² , test temperature 160Â°C; ASTM D5289
	7.6 min	t _c (50), ASTM D5289

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