

Dow Buna® SB 1739 Cold polymerized Emulsion Styrene Butadiene Rubber (E-SBR)

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

Material Notes:

Buna® SB 1739 - Schkopau is manufactured by cold polymerization using mixed rosin acid / fatty acid soaps. It is plasticized with 37.5 parts of a TDAE oil in relation to solid rubber. A discoloring stabilizer is added during the production process. Buna® SB 1739 - Schkopau is recommended for tire applications, especially where improved wet grip properties are required. Other applications include molded and extruded mechanical goods with low resilience. It is supplied in bales weighing 25 kg. Bales are wrapped in 50 micron PE film. At mixing temperatures above 115°C, the rubber can be processed with the packaging film. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Buna-SB-1739-Cold-polymerized-Emulsion-Styrene-Butadiene-Rubber-E-SBR.php

Physical Properties	Metric	English	Comments
Viscosity Measurement	2.2	2.2	[dNm]; ML, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	3.5	3.5	
	@Temperature 160 °C	@Temperature 320 °F	
	7.0	7.0	
Mooney Viscosity	14	14	[min]; T50, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	16.5	16.5	
	@Temperature 160 °C	@Temperature 320 °F	
	53	53	
Ash	0.10 %	0.10 %	ASTM D5667
	@Temperature 100 °C	@Temperature 212 °F	
Collected Volatile Condensable Material	0.20 %	0.20 %	ASTM D5668
Storage Temperature	<= 30.0 °C	<= 86.0 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	22.5 MPa	3260 psi	Die C (35 min / 145°C); ASTM D412
Tensile Strength, Yield	13.5 MPa	1960 psi	ASTM D412
	@Strain 300 %	@Strain 300 %	

Mechanical Properties	Metric	English	Comments
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Chemical Properties	Metric	English	Comments
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Acid Value	5.0	5.0	% Organic Acid; ASTM D5775
Styrene Content	40 %	40 %	Bound Styrene; ASTM D5775

Processing Properties	Metric	English	Comments
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Shelf Life	>= 12.0 Month	>= 12.0 Month	
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Descriptive Properties	Value	Comments
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Accelerator (TBBS) wt%	1	ASTM 3185-1A
Carbon Black wt%	50	ASTM 3185-1A; IRB 7
Stearic Acid wt%	1	ASTM 3185-1A
Sulfur content, %	1.75	ASTM 3185-1A
Total Extractables %	32.5	ASTM D5774
Zinc Oxide wt%	3	ASTM 3185-1A

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