

Dow Buna® SB 1723 Cold polymerized Emulsion Styrene Butadiene Rubber (E-SBR)

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

Material Notes:

Buna® SB 1723 - 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 1723 - Schkopau is a general purpose rubber. It can be processed in all sectors of the tire and rubber industry. The main application is tire production. 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-1723-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	
	3.0	3.0	[min]; ts1, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	6.5	6.5	[min]; T50, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
Mooney Viscosity	12	12	[min]; T90, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	17.2	17.2	[dNm]; MH, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	50	50	[MU]; ML 1+4, massed sample; ASTM D1646-99 (7.2.2)
	@Temperature 100 °C	@Temperature 212 °F	
Ash	0.10 %	0.10 %	ASTM D5667
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	23.0 MPa	3340 psi	Die C (35 min / 145°C); ASTM D412
Tensile Strength, Yield	13.0 MPa	1890 psi	ASTM D412
	@Strain 300 %	@Strain 300 %	

Mechanical Properties	Metric	English	Comments
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Chemical Properties	Metric	English	Comments
Acid Value	4.9	4.9	% Organic Acid; ASTM D5775
Styrene Content	23.5 %	23.5 %	Bound Styrene; ASTM D5775

Processing Properties	Metric	English	Comments
Shelf Life	>= 12.0 Month	>= 12.0 Month	

Descriptive Properties	Value	Comments
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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China