

Dow Buna® SB 1500 Cold polymerized Emulsion Styrene Butadiene Rubber (E-SBR)

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

Material Notes:

Buna® SB 1500 - Schkopau is manufactured by cold polymerization using a rosin acid soap. A discoloring stabilizer is added during the production process. Buna® SB 1500 - Schkopau is a general purpose rubber. It can be processed in all sectors of the tire and rubber industry. 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-1500-Cold-polymerized-Emulsion-Styrene-Butadiene-Rubber-E-SBR.php

Physical Properties	Metric	English	Comments
Viscosity Measurement	2.5	2.5	[min]; ts1, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	2.5	2.5	
	@Temperature 160 °C	@Temperature 320 °F	
	6.5	6.5	
	@Temperature 160 °C	@Temperature 320 °F	[min]; T50, (0.5 RAD); ASTM D5289
	11.5	11.5	[min]; T90, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	22	22	[dNm]; MH, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
Mooney Viscosity	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	28.5 MPa	4130 psi	Die C (35 min / 145°C); ASTM D412
Tensile Strength, Yield	16.5 MPa	2390 psi	ASTM D412
	@Strain 300 %	@Strain 300 %	
Elongation at Break	480 %	480 %	ASTM D412

Mechanical Properties	Metric	English	Comments
Acid Value	6.5	6.5	% 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
Zinc Oxide wt%	3	ASTM 3185-1A

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