

Dow SE SLR-4630 Solution polymerized Styrene Butadiene Rubber (S-SBR)

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

Material Notes:

SE SLR-4630 is manufactured by anionic solution polymerization using lithium initiator and is extended with 37.5 parts of TDAE oil in relation to solid rubber. It is a product with medium styrene and high vinyl content. The product is partially Sn-coupled and non-staining stabilized. SE SLR-4630 is used in the tire industry for the manufacture of winter and all season applications. It can also be used for the manufacture of high-quality technical rubber articles. It is supplied in bales weighing 25 kg. Bales are wrapped in 50 micron PE film. At mixing temperatures above 110°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-SE-SLR-4630-Solution-polymerized-Styrene-Butadiene-Rubber-S-SBR.php

Physical Properties	Metric	English	Comments
Viscosity Measurement	2.8	2.8	[dNm]; ML, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	4.4	4.4	[min]; ts1, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	10.9	10.9	[min]; T50, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	14.3	14.3	[dNm]; MH, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	17.9	17.9	[min]; T90, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
Mooney Viscosity	55	55	[MU]; ML 1+4, unmassed sample; ASTM D1646
	@Temperature 100 °C	@Temperature 212 °F	
Vinyl Acetate Content	63 %	63 %	FTIR, internal method
Collected Volatile Condensable Material	0.32 %	0.32 %	ASTM D5668
Storage Temperature	<= 30.0 °C	<= 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	56.7	56.7	(25 min / 160°C); ASTM D2240
	@Thickness 12.5 mm	@Thickness 0.492 in	
Tensile Strength, Ultimate	20.0 MPa	2900 psi	Die C (35 min / 145°C); ASTM D412
	10.5 MPa	1520 psi	

Tensile Strength, Yield Mechanical Properties	Metric @ Strain 300 %	English @ Strain 300 %	ASTM D412 Comments
Elongation at Break	540 %	540 %	ASTM D412
Rebound	19 % @ Thickness 12.5 mm	19 % @ Thickness 0.492 in	Schob pendulum, (25 min / 160°C); ISO 4662

Thermal Properties	Metric	English	Comments
Vicat Softening Point	92.2 °C	198 °F	
Glass Transition Temp, Tg	-28.9 °C	-20.0 °F	HR 10 K/min; half height; DSC

Chemical Properties	Metric	English	Comments
Styrene Content	25 %	25 %	FTIR, internal method

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

Descriptive Properties	Value	Comments
Accelerator (TBBS) wt%	1.38	ASTM 3185-2B
Carbon Black wt%	68.75	ASTM 3185-2B; IRB 7
Stearic Acid wt%	1	ASTM 3185-2B
Sulfur content, %	1.75	ASTM 3185-2B
Total Extractables %	27.4	ASTM D5774
Zinc Oxide wt%	3	ASTM 3185-2B

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