

Dow SE SLR-4601 Solution polymerized Styrene Butadiene Rubber (S-SBR)

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

Material Notes:

SE SLR-4601 is manufactured by anionic solution polymerization using lithium initiator. It is a product with medium styrene and high vinyl content. The product is partially Sn-coupled and chemically modified. A non-staining stabilizer is added during the production process. SE SLR-4601 is widely used in the tire industry where an excellent balance between wet grip and rolling resistance is required. The material can also be used to manufacture 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-4601-Solution-polymerized-Styrene-Butadiene-Rubber-S-SBR.php

Physical Properties	Metric	English	Comments
Viscosity Measurement	1.9	1.9	[dNm]; ML, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	4.5	4.5	
	@Temperature 160 °C	@Temperature 320 °F	
	6.5	6.5	
	@Temperature 160 °C	@Temperature 320 °F	[min]; T50, (0.5 RAD); ASTM D5289
	12	12	[min]; T90, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	16.9	16.9	[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
	@Temperature 100 °C	@Temperature 212 °F	
Vinyl Acetate Content	63 %	63 %	FTIR, internal method
Collected Volatile Condensable Material	0.15 %	0.15 %	ASTM D5668
Storage Temperature	<= 30.0 °C	<= 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	61.5	61.5	(25 min / 160°C); ASTM D2240
	@Thickness 12.5 mm	@Thickness 0.492 in	
Tensile Strength, Ultimate	19.0 MPa	2760 psi	Die C (35 min / 145°C); ASTM D412
	15.0 MPa	2180 psi	

Tensile Strength, Yield Mechanical Properties	Metric @Strain 300 %	English @Strain 300 %	ASTM D412 Comments
Elongation at Break	350 %	350 %	ASTM D412
Rebound	24.5 % @Thickness 12.5 mm	24.5 % @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	-25.0 °C	-13.0 °F	HR 10 K/min; half height; DSC

Chemical Properties	Metric	English	Comments
Styrene Content	21 %	21 %	FTIR, internal method

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

Descriptive Properties	Value	Comments
Accelerator (CBS) wt%	1	
Aromatic Oil wt%	5	
Carbon Black wt%	50	; IRB 7
Stearic Acid wt%	1.5	
Sulfur content, %	1.75	
Zinc Oxide wt%	3	

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