

Dow SE SLR-4400 Solution polymerized Styrene Butadiene Rubber (S-SBR)

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

Material Notes:

SE SLR-4400 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 non-staining stabilized. SE SLR-4400 is widely used in the manufacture of high-quality technical rubber articles but also can be used in the tire industry. 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-4400-Solution-polymerized-Styrene-Butadiene-Rubber-S-SBR.php

Physical Properties	Metric	English	Comments
Viscosity Measurement	1.8	1.8	[dNm]; ML, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	6.0	6.0	
	@Temperature 160 °C	@Temperature 320 °F	
	8.0	8.0	
Mooney Viscosity			[min]; T50, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	13	13	
	@Temperature 160 °C	@Temperature 320 °F	
	20.8	20.8	
Vinyl Acetate Content			[dNm]; MH, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
Collected Volatile Condensable Material	55	55	[MU]; ML 1+4, massed sample; ASTM D1646
	@Temperature 100 °C	@Temperature 212 °F	
Vinyl Acetate Content	35 %	35 %	FTIR, internal method
Collected Volatile Condensable Material	0.15 %	0.15 %	ASTM D5668
Storage Temperature	<= 13.0 °C	<= 55.4 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	64	64	(25 min / 160°C); ASTM D2240
	@Thickness 12.5 mm	@Thickness 0.492 in	
Tensile Strength, Ultimate	22.0 MPa	3190 psi	Die C (35 min / 145°C); ASTM D412
Tensile Strength, Yield	13.0 MPa	1890 psi	ASTM D412

Mechanical Properties	@Strain 300 % Metric	@Strain 300 % English	Comments
Elongation at Break	430 %	430 %	ASTM D412
Rebound	53 % @Thickness 12.5 mm	53 % @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	-47.2 °C	-53.0 °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 (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	

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