

Dow SE SLR-4610 Solution polymerized Styrene Butadiene Rubber (S-SBR)

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

Material Notes:

SE SLR-4610 is manufactured by anionic solution polymerization using lithium initiator and is extended with 37.5 parts of aromatic 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-4610 is widely used in the tire industry for the manufacture of high performance tires providing excellent balance between rolling resistance and wet grip, but it is also 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-4610-Solution-polymerized-Styrene-Butadiene-Rubber-S-SBR.php

Physical Properties	Metric	English	Comments
Viscosity Measurement	2.5	2.5	[dNm]; ML, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	4.5	4.5	[min]; ts1, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	9.0	9.0	[min]; T50, (0.5 RAD); ASTM D5289
@Temperature 160 °C	@Temperature 320 °F		
Mooney Viscosity	14.5	14.5	[dNm]; MH, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	16	16	[min]; T90, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	45	45	[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	0.35 %	0.35 %	ASTM D5668
Storage Temperature	<= 30.0 °C	<= 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	59	59	(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

Mechanical Properties	Metric ^{Pa}	English ^l	Comments
Tensile Strength, Yield	@Strain 300 %	@Strain 300 %	ASTM D412
Elongation at Break	550 %	550 %	ASTM D412
Rebound	15 % @Thickness 12.5 mm	15 % @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	-25.2 °C	-13.4 °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 %	27.2	ASTM D5774
Zinc Oxide wt%	3	ASTM 3185-2B

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