

Dow SE SLR-6410 Solution polymerized Styrene Butadiene Rubber (S-SBR)

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

Material Notes:

SE SLR-6410 is manufactured by anionic solution polymerization using lithium initiator and is extended with 50 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-6410 is widely used in the tire industry for the manufacture of high performance summer tires providing an excellent grip and dry handling behavior. 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-6410-Solution-polymerized-Styrene-Butadiene-Rubber-S-SBR.php

Physical Properties	Metric	English	Comments
Viscosity Measurement	3.8	3.8	[dNm]; ML, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	5.0	5.0	[min]; ts1, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	8.5	8.5	[min]; T50, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
Mooney Viscosity	12.5	12.5	[min]; T90, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	14.7	14.7	[dNm]; MH, (0.5 RAD); ASTM D5289
	@Temperature 160 °C	@Temperature 320 °F	
	65	65	[MU]; ML 1+4, unmassed sample; ASTM D1646
	@Temperature 100 °C	@Temperature 212 °F	
Vinyl Acetate Content	25 %	25 %	FTIR, internal method
Collected Volatile Condensable Material	0.34 %	0.34 %	ASTM D5668
Storage Temperature	<= 30.0 °C	<= 86.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	57	57	(25 min / 160°C); ASTM D2240
	@Thickness 12.5 mm	@Thickness 0.492 in	
Tensile Strength, Ultimate	23.0 MPa	3340 psi	Die C (35 min / 145°C); ASTM D412

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	@Strain 300 %	@Strain 300 %	ASTM D412
Elongation at Break	630 %	630 %	ASTM D412
Rebound	23 % @Thickness 12.5 mm	23 % @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	-32.9 °C	-27.2 °F	HR 10 K/min; half height; DSC

Chemical Properties	Metric	English	Comments
Styrene Content	40 %	40 %	FTIR, internal method

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

Descriptive Properties	Value	Comments
Accelerator (TBBS) wt%	1.5	ASTM 3185-3B
Carbon Black wt%	75	ASTM 3185-3B; IRB 7
Stearic Acid wt%	1	ASTM 3185-3B
Sulfur content, %	1.75	ASTM 3185-3B
Total Extractables %	32.9	ASTM D5774
Zinc Oxide wt%	3	ASTM 3185-3B

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