

Styron Sprintan® SLR 4630 Solution Styrene Butadiene Rubber (S-SBR)

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

Material Notes:

Composition: SPRINTAN® SLR-4630 Schkopau is manufactured by anionic solution polymerization using an organo-lithium initiator. In relation to solid rubber the grade is extended with 37.5 parts of TDAE oil which complies with the EU Directive 2005/69/EC for use in tyre application. The product has a medium styrene/high vinyl micro structure and a typical glass transition temperature of -29°C.

SPRINTAN® SLR-4630 Schkopau is partially Si-coupled and contains a non-staining stabiliser. Application: SPRINTAN® SLR-4630 Schkopau provides an excellent balance between good wet traction and low rolling resistance for silica- and/or carbon black- filled tyre tread compounds for summer -, winter -, and all season tyres. The product can also be used in high-quality technical rubber articles. Test Formulation (based on IRB7 black): Polymer 137.5 parts by mass Stearic Acid - 1.0 parts by mass Zinc Oxide - 3.00 parts by mass Carbon Black IRB 7 68.75 parts by mass Sulphur - 1.75 parts by mass Accelerator (CBS) - 1.38 parts by mass Stearic Acid 1.0 parts by mass Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-Sprintan-SLR-4630-Solution-Styrene-Butadiene-Rubber-S-SBR.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	
Volatiles	0.30 % @Treatment Temp. 105 °C, Time 3600 sec	0.30 % @Treatment Temp. 221 °F, Time 1.00 hour	5 g in hot air oven; ASTM D5668
Mooney Viscosity	55 @Temperature 100 °C	55 @Temperature 212 °F	[MU] ML 1+4; ASTM D1646
Ash	0.30 %	0.30 %	ASTM D5667

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	56.7	56.7	ASTM D2240
Tensile Strength at Break	19.0 MPa @Treatment Temp. 145 °C, Time 2100 sec	2760 psi @Treatment Temp. 293 °F, Time 0.583 hour	Cure; ASTM D412
Elongation at Break	510 %	510 %	ASTM D412
300% Modulus	0.0104 GPa	1.51 ksi	ASTM D412
Rebound	18 %	18 %	Resilience; ISO 4662

Thermal Properties	Metric	English	Comments
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Glass Transition Temp, Tg Thermal Properties	-28.9 Â°C Metric	-20.0 Â°F English	HR 10 K/min, half height Comments
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Chemical Properties	Metric	English	Comments
Styrene Content	25 %	25 %	Bound; ASTM D5775

Descriptive Properties	Value	Comments
Composition	0.274	Total Extractables; ASTM D5774
	0.63	Vinyl content
Rheometer	11.2 min	t_c (50), ASTM D5289
	15.0 dNm	MH, ASTM D5289
	18.4 min	t_c (90), ASTM D5289
	3.1 dNm	ML, ASTM D5289
	7.8 min	t_s, test temperature 160Â°C; ASTM D5289

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