

Styron Sprintan® SLR 6430 Solution Styrene Butadiene Rubber (S-SBR)

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

Material Notes:

Composition: SPRINTAN® SLR-6430 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 high styrene/medium vinyl micro structure and a typical glass transition temperature of -36°C.

SPRINTAN® SLR-6430 Schkopau is partially Si-coupled and contains a non-staining stabilizer. Application: SPRINTAN® SLR-6430 Schkopau provides high wet grip, improved wear & handling properties combined with excellent low rolling resistance for high performance tyre treads. 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-6430-Solution-Styrene-Butadiene-Rubber-S-SBR.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	
Volatiles	0.40 % @Treatment Temp. 105 °C, Time 3600 sec	0.40 % @Treatment Temp. 221 °F, Time 1.00 hour	5 g in hot air oven; ASTM D5668
Mooney Viscosity	67 @Temperature 100 °C	67 @Temperature 212 °F	[MU] ML 1+4; ASTM D1646
Ash	0.050 %	0.050 %	ASTM D5667

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	57	57	ASTM D2240
Tensile Strength at Break	21.3 MPa @Treatment Temp. 145 °C, Time 2100 sec	3090 psi @Treatment Temp. 293 °F, Time 0.583 hour	Cure; ASTM D412
Elongation at Break	520 %	520 %	ASTM D412
300% Modulus	0.0113 GPa	1.64 ksi	ASTM D412
Rebound	27 %	27 %	Resilience; ISO 4662

Thermal Properties	Metric	English	Comments
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Glass Transition Temp, Tg Thermal Properties	-36.0 Å°C Metric	-32.8 Å°F English	HR 10 K/min, half height Comments
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Chemical Properties	Metric	English	Comments
Styrene Content	40 %	40 %	Bound; ASTM D5775

Descriptive Properties	Value	Comments
Composition	0.24	Vinyl content
	0.282	Total Extractables; ASTM D5774
Rheometer	10.1 min	t _c (50), ASTM D5289
	15.1 min	t _c (90), ASTM D5289
	16.1 dNm	MH, ASTM D5289
	4.0 dNm	ML, ASTM D5289
	7.9 min	t _s >2, test temperature 160Å°C; ASTM D5289

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