

Styron Sprintan® SLR 4601 Solution Styrene Butadiene Rubber (S-SBR)

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

Material Notes:

Composition: SPRINTAN® SLR-4601 Schkopau is manufactured by anionic solution polymerization using an organo-lithium initiator. The product has a medium styrene/high vinyl micro structure and a typical glass transition temperature of -25°C. SPRINTAN® SLR-4601 Schkopau is partially coupled and bears a GENERATION 1 functionalisation for improved polymer/filler interaction especially with carbon black. A non-staining stabilizer is added in the production. Application: SPRINTAN® SLR-4601 Schkopau provides excellent balance between wet grip and rolling resistance for low fuel consumption tyre treads based on carbon black. The high-vinyl micro structure makes SPRINTAN® SLR-4601 Schkopau applicable in summer-, all-season-, as well as in winter tyres. Test Formulation (based on IRB7 black): Polymer - 100.0 parts by mass Stearic Acid - 1.50 parts by mass Zinc Oxide - 3.00 parts by mass Carbon Black IRB 7 - 50.0 parts by mass Aromatic Oil - 5.00 parts by mass Sulphur - 1.75 parts by mass Accelerator (CBS) - 1.00 parts by mass Information provided by Styron

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-Sprintan-SLR-4601-Solution-Styrene-Butadiene-Rubber-S-SBR.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 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	50 @Temperature 100 °C	50 @Temperature 212 °F	[MU] ML 1+4; ASTM D1646
Ash	0.20 %	0.20 %	ASTM D5667

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	60.8	60.8	ASTM D2240
Tensile Strength at Break	21.9 MPa @Treatment Temp. 145 °C, Time 2100 sec	3180 psi @Treatment Temp. 293 °F, Time 0.583 hour	Cure; ASTM D412
Elongation at Break	384 %	384 %	ASTM D412
300% Modulus	0.0156 GPa	2.26 ksi	ASTM D412
Rebound	23.9 %	23.9 %	Resilience; ISO 4662

Thermal Properties	Metric	English	Comments
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Glass Transition Temp, Tg Thermal Properties	-25.0 Å°C Metric	-13.0 Å°F English	HR 10 K/min, half height Comments
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Chemical Properties	Metric	English	Comments
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Styrene Content	21 %	21 %	Bound; ASTM D5775
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Descriptive Properties	Value	Comments
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Composition	0.63	Vinyl content
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Rheometer	12.9 min	t _c (90), ASTM D5289
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	17.9 dNm	MH, ASTM D5289
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	2.0 dNm	ML, ASTM D5289
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	5.3 min	t _s 2, test temperature 160Å°C; ASTM D5289
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	6.8 min	t _c (50), ASTM D5289
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