

KKPC KOSYN SOL 5520 Solution Styrene Butadiene Rubber (S-SBR)

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

Material Notes:

Solution Styrene Butadiene Rubber (S-SBR) Characteristics: This product is made by solution polymerization under which styrene and butadiene react in organic solvent using alkyl-lithium catalyst. It is superior to SBR, which is made by emulsion polymerization, in processability, visco-elasticity and low temperature properties. Also, the products' properties can be adjusted to the purpose of consumption according to the proper proportion of styrene content, the micro structure and the molecular weight. **Applications:** Shoes, Soles, Tires, Machine Parts, Energy-saving Tires, High-efficiency Tires **Additional Notes:** Bound Styrene: 23.7% cis-1,4 Contents: 25% trans-1,4 Contents: 39% Vinyl Contents: 39% **Dynamic Test:** GABO Qualimeter (11Hz)(TAN) 0°C: 0.326 10°C: 0.214 60°C: 0.125 70°C: 0.116 This product is so sensitive to sunlight and humidity that it can be tarnished and caused deterioration of quality if exposed. It is recommended to store it in cool and shady area lest it should be exposed to direct sunlight. Do not expose to incompatible materials or contaminants. Data provided by Korea Kumho Petrochemical Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_KKPC-KOSYN-SOL-5520-Solution-Styrene-Butadiene-Rubber-S-SBR.php

Physical Properties	Metric	English	Comments
Mooney Viscosity	54	54	Raw; ML1+4
	@Temperature 100 °C	@Temperature 212 °F	
	93	93	ML1+4; Polymer 100, HAF Black (IRB#6) 50, ZnO 3, Stearic Acid 1, D 0.3, DM 0.6, Sulfur 1.75, Total: 156.65, Cure: 145°C, 35 minutes.
	@Temperature 100 °C	@Temperature 212 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	69	69	JIS-A
Tensile Strength, Ultimate	27.3 MPa	3950 psi	
Elongation at Break	500 %	500 %	
300% Modulus	0.0145 GPa	2.11 ksi	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-34.0 °C	-29.2 °F	Compound

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