

KKPC KOSYN SOL 5740 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: 15% cis-1,4 Contents: 14% trans-1,4 Contents: 28% Vinyl Contents: 57% **Dynamic Test:** GABO Qualimeter (11Hz)(TAN) 0°C: 0.235 10°C: 0.162 60°C: 0.097 0°C: 0.084 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-5740-Solution-Styrene-Butadiene-Rubber-S-SBR.php

| Physical Properties | Metric | English | Comments |
|---------------------|---------------------|---------------------|--|
| Mooney Viscosity | 65 | 65 | Raw; ML1+4 |
| | @Temperature 100 °C | @Temperature 212 °F | |
| | 90.4 | 90.4 | 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 | 65 | 65 | JIS-A |
| Tensile Strength, Ultimate | 26.9 MPa | 3900 psi | |
| Elongation at Break | 470 % | 470 % | |
| 300% Modulus | 0.0146 GPa | 2.12 ksi | |

| Thermal Properties | Metric | English | Comments |
|---------------------------|----------|----------|----------|
| Glass Transition Temp, Tg | -28.0 °C | -18.4 °F | Compound |

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