

KKPC KOSYN 1507 Styrene Butadiene Rubber

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

Material Notes:

Styrene Butadiene Rubber Characteristics: KOSYN SBR, a useful synthetic rubber, is a copolymer made from butadiene and styrene by cold emulsion polymerization. It has superior abrasion resistance and heat resistance in comparison with natural rubber, as well as widely useful physical properties of easy vulcanization and stable scorch properties. The products of KOSYN SBR are classified according to the emulsifying agent and stabilizer used in manufacturing process. **Applications:** Tires, footwear, rubber hose, auto equipment and other rubber products for industrial use. **Additional Notes:** Bound Styrene: 23.5% **Stabilizer:** Non-Staining **Emulsifier:** Mixed soap of rosin acid and fatty acid **Coagulant:** Salt-Acid **Compound Properties:** SRB 100, ZnO 3, S/A 1, HAF Black (IRB#7) 50, Accelerator TBBS1, Sulfur 1.75, Total: 156.75 **Vulcanization:** 145°C *35 m., Press **Vulcanization** 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-1507-Styrene-Butadiene-Rubber.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	Not Compounded
Mooney Viscosity	35	35	Raw; ML1+4
	@Temperature 100 °C	@Temperature 212 °F	
	61	61	Compounded; ML1+4
	@Temperature 100 °C	@Temperature 212 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	71	71	Vulcanized
Tensile Strength, Ultimate	27.7 MPa	4010 psi	Vulcanized
Elongation at Break	480 %	480 %	Vulcanized
300% Modulus	0.0167 GPa	2.42 ksi	Vulcanized
Rebound	55 %	55 %	ASTM Test, Vulcanized
Flex Crack Resistance	4000	4000	145°C / 35 min., Press Vulcanization
Tear Strength	49.0 kN/m	280 pli	B-type, Vulcanized
Abrasion	0.19	0.19	De Mattia Flexometer: Cut Growth 2mm --> 15mm, Flexes
Compression Set	51 %	51 %	70 hrs, 25% def, Vulcanized
	@Temperature 100 °C	@Temperature 212 °F	

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