

## KKPC KOSYN 1721 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: 40% Extender Oil: 37.5; Aromatic Stabilizer: 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-1721-Styrene-Butadiene-Rubber.php](http://www.lookpolymers.com/polymer_KKPC-KOSYN-1721-Styrene-Butadiene-Rubber.php)

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in <sup>3</sup>	Not Compounded
Mooney Viscosity	54	54	Raw; ML1+4
	@Temperature 100 °C	@Temperature 212 °F	
	67	67	Compounded; ML1+4
	@Temperature 100 °C	@Temperature 212 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	61	61	Vulcanized
Tensile Strength, Ultimate	23.7 MPa	3440 psi	Vulcanized
Elongation at Break	620 %	620 %	Vulcanized
300% Modulus	0.0106 GPa	1.54 ksi	Vulcanized
Rebound	30 %	30 %	ASTM Test, Vulcanized
Flex Crack Resistance	15000	15000	145°C / 35 min., Press Vulcanization
Tear Strength	43.1 kN/m	246 pli	B-type, Vulcanized
Abrasion	0.19	0.19	De Mattia Flexometer: Cut Growth 2mm --> 15mm, Flexes
Compression Set	50 %	50 %	70 hrs, 25% def, Vulcanized

Mechanical Properties	@Temperature 100 Å°C Metric	@Temperature 212 Å°F English	Comments
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**Contact Songhan Plastic Technology Co.,Ltd.**

Website : [www.lookpolymers.com](http://www.lookpolymers.com)  
Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)  
Tel : +86 021-51131842  
Mobile : +86 13061808058  
Skype : lookpolymers  
Address : United North Road 215,Fengxian District, Shanghai City,China