

KUMHO SOL

S-SBR(Solution Polymerized Styrene Butadiene Rubber)

1. Product Introduction

KUMHO solution SBR (SSBR) is manufactured styrene and butadiene by anionic solution polymerization using alkyllithium initiator in organic solvent and its processibility, viscoelsticity and cold flexibility are superior to emulsion SBR.

KUMHO SSBR can be properly harmonized styrene %, Vinyl % and molecular weight, and provides a wide range of styrene and vinyl level to optimize performance in a variety of tire and industrial applications as it uses innovative new coupling technology

2. Product Application

Grade	CAS NO	Packages	Applications
SOL 5270S	9003-55-8	35 kg/Bale 1.05MT/box	Tire
SOL 5270M			
SOL 6270SL			
SOL 6270M			
SOL 6360SL			
SOL C6270L			
SOL C6450SL			

3. Handling Precautions

The direct expose to sunlight and humidity may cause discoloration or quality deterioration, keep the product away from direct sunlight, humidity and chemicals and store in a cool, dry place at temperatures below 35°C

You have to use a carrying apparatus since the risk of injury while carrying 35Kg per bale, do not multi-layer loading up because of the safety accident.

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KUMHO PETROCHEMICAL

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4. Typical Properties

1) Raw Material Properties

	a. Batch Process				b. Continuous Process		
	SOL 5270S	SOL 5270M	SOL 6270SL	SOL 6360SL	SOL 6270M	SOL C6270L	SOL C6450SL
Styrene Content(wt%)	21	21	25	34	25	25	35.5
Vinyl Content(wt%)	63	63	63	48	63	63	40
Raw Mooney Viscosity (ML ₁₊₄ , 100°C)	50	50	47	47	47	63	53
Aromatic Oil Content (wt%)	-	-	27.3 (Low PCA oil)	27.3 (Low PCA oil)	27.3 (Low PCA oil)	27.3 (Low PCA oil)	27.3 (Low PCA oil)
Tg (°C)	-25	-25	-25	-32	-28	-28	-30
Characteristics	Batch Process				Continuous Process		
Stabilizer	Non-Staining						
Applications	Tire, etc						

NOTE) The above data are typical value; therefore, they may differ slightly from the physical properties of the supplied product.

2) Basic Properties of silica filled Vulcanizates

KUMHO SSBR designed compatible with silica, so many advantage characteristics were observed in silica tire compound such as increasing bound rubber, good filler dispersion, higher wet traction, lower rolling resistance, lower heat build-up and lower mill shrinkage.

KUMHO solution SBR is used in tire industry for the manufacture of high performance tire.

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