SBS(Styrene Butadiene Styrene): KTR







Product Description

KUMHO KTR is a family of styrenic thermoplastic elastomers manufactured by the Korea Kumho Petrochemical C"Ltd. KUMHO KTR grades are linear or radial block copolymers synthesized with butadiene and styrene monomer in organic solvent. They have good tensile strength, Elasticity and processability without chemical cross-linkin such as vulcanization.

Product Application

KUMHO KTR grades are used in various industrial applications sectors such as footwears general compounds bitumen modification adhesives and plastics modification.

Grade	CAS No.	Packaging			Applications			
		Paper bag	Jumbo bag	Pallet	Adhesives	Bitumen modifier	Plastic modifier	Footwears
KTR-101	9003-55-8	15	200, 500	600	0	0	0	0
KTR-201		15, 20		600	0	0	0	0
KTR-401		15	200, 500	600		0		0
KTR-401H		15	500	600		0		
KTR-301	9003-55-8	20		600			0	0
KTR-302	Naphthenic Oil: 8042-47-5	20		600			0	0
KTR-602	9003-55-8	20	600	600	0		0	

Charateristics

Fields	Characteristics
Adhesives	- Low temperature property and bending property
- Hot melt adhesive	- Excellent transparency
- Pressure sensitive adhesive	- Can be dissolved in the variety of solvents
Bitumen modifier	- Increase softening point of asphalt
- Roofing sheet	- Reduce the sensitivity to temperature change
- Road paving	- Improve service temperature/adhesive strength
- Sound insulation materials	- Possess low temperature flexibility
	- Excellent elasticity and impact resistance property
	-Extend life time of asphalt pavement
Plastics modifier	- Increase elasticity and impact property
- TV, PC housing	- Improve abrasion resistance
- Toys	- Easy colorability
- Mechanical goods	- Can be reprocessed
Footwear	- Iincrease elasticity
- Shoe soles	- Easy colorability
- Shoe materials	- Excellent low temperature flexibility
	- Improve abrasion resistance property
	- Low sensitivity of hardness to temperature

Handling Precaution

The direct expose to sunlight and heat 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

Grade Table

Item	Grade	KTR-101	KTR-201	KTR-401	KTR-401H	KTR-301	KTR-302	KTR-602
Structure		Linear	Radial					Linear
Physical Form		Porous pellet/Powder	Porous pellet	t Porous pellet/Powder Porous pellet			Porous pellet/Powder	
Styrene Content(wt%)	IR	31.5	31.5	31	32.5	41.0	46.0	40.5
Volatile Matter(wt%)	ASTM D 1416	max0.75	max0.75	max0.7	max0.7	max0.7	max0.7	max0.7
Solution Viscosity in 25wt% Toluene	ASTM D 445	4,500	1,200	*1)23.8	*1)22	-	-	-
Melt Flow Index(200℃, 5kg(g/10min)	ASTM D 1238	<1	6	<1	<1	6	*2)9	11
specific Gravity	ISO 2781	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Tensile Strength(kgf/cm2)	ASTM D 412	min200	min200	min180	min200	min150	min160	min250
Hardness(Shore-A, 5sec)	ASTM D 2240	77	71	82	87	61	77	91
Extended Oil Cotent(wt%)	KKPC method	-	-	-	-	33.3	32.5	-