

Chevron Phillips K-Resin® KR01 Styrene-Butadiene Copolymer, Injection Molding Grade

Category : Polymer , Thermoplastic , Styrene-Butadiene , Styrene-Butadiene Copolymer, SBC

Material Notes:

Styrene-Butadiene CopolymerCustomer Benefits: This SBC can be processed by injection molding and extrusion into attractive useful parts that have excellent clarity, good toughness, good stiffness, high surface gloss, and warpage resistance.Applications: Major applications include medical devices, housings, molded boxes with integral hinges, toys, and displays.Processing Recommendations:Injection Molding: Melt Temperature, 232°C maximum. Mold Temperature: 49°C maximum. Screw plasticizing type molder more desirable than plunger type molder. Generally no need to dry resin.Specification Data: FDA Regulation 21 CFR 177.1640. Suitable for food contact. EEC Directive 90/128/EEC and all its amendments. USP Class VI-50. UL 94HB.Data provided by Chevron Phillips Chemical Company LP.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Chevron-Phillips-K-Resin-KR01-Styrene-Butadiene-Copolymer-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in³	ASTM D792
Melt Flow	8.0 g/10 min	8.0 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	ASTM D2240
Tensile Strength, Yield	30.0 MPa	4350 psi	Type 1 @ 2 in/min; ASTM D638
Elongation at Break	20 %	20 %	Type 1 @ 2 in/min; ASTM D638
Flexural Yield Strength	44.0 MPa	6380 psi	ASTM D790
Flexural Modulus	1.482 GPa	214.9 ksi	ASTM D790
Impact Test	0.700 J	0.516 ft-lb	Instrumented Total Energy; @ 150 in/sec impact rate; ASTM D3763
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	77.0 °C	171 °F	ASTM D648
Vicat Softening Point	93.0 °C	199 °F	ASTM D1525
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
--------------------	--------	---------	----------

Optical Properties	Metric	English	Comments
--------------------	--------	---------	----------

Processing Properties	Metric	English	Comments
Processing Temperature	<= 232 °C	<= 450 °F	injection molding

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China