

Chevron Phillips K-Resin® KR99HG Styrene-Butadiene Copolymer, Injection Molding Grade (discontinued **)

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

Material Notes:

Styrene-Butadiene Copolymer Customer Benefits: This SBC is easily processed by injection molding. Molded parts provide excellent part detail on fast production cycles. Molded parts have excellent clarity, good toughness, excellent stiffness, high surface gloss, and can be blended with Polystyrene. **Applications:** Garment Hangers **Processing Recommendations:** Melt Temperature: 232°C, maximum. Screw: plasticizing type injection molder more desirable than plunger type molder. Generally no need to dry resin. Data provided by Chevron Phillips Chemical Company LP.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-K-Resin-KR99HG-Styrene-Butadiene-Copolymer-Injection-Molding-Grade-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ASTM D792
Water Absorption	0.090 %	0.090 %	ASTM D570
Melt Flow	7.5 g/10 min @Load 5.00 kg, Temperature 200 °C	7.5 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Yield	26.0 MPa	3770 psi	2 in per min; ASTM D638; Test specimens were injection molded by ASTM D1897.
Elongation at Break	160 %	160 %	2 in per min; ASTM D638; Test specimens were injection molded by ASTM D1897.
Flexural Yield Strength	34.0 MPa	4930 psi	Test specimens were injection molded by ASTM D1897; ASTM D790
Flexural Modulus	1.413 GPa	204.9 ksi	Test specimens were injection molded by ASTM D1897; ASTM D790
Izod Impact, Notched	0.410 J/cm @Thickness 3.17 mm	0.768 ft-lb/in @Thickness 0.125 in	ASTM D256
Impact Test	29.7 J @Thickness 3.17 mm	21.9 ft-lb @Thickness 0.125 in	Instrumented Total Energy; @ 150 in/sec impact rate; ASTM D3763

Thermal Properties	Metric	English	Comments
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Thermal Properties <small>Deflection Temperature at 1.8 MPa (100 psi)</small>	Metric <small>73.0 °C</small>	English <small>163 °F</small>	Comments <small>ASTM D648</small>
Vicat Softening Point	87.0 °C	189 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	ASTM D1003

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

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