

Chevron Phillips K-Resin® BK11 Styrene-Butadiene Copolymer, Injection Molding Grade (discontinued **)

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

Material Notes:

Styrene-Butadiene Copolymer Customer Benefits: BK11 is an SBC consisting of KR03 grade with a mold release added of easier processing. BK11 molded parts give excellent detail on fast production cycles, and are easily processed by injection molding. This resin can be tinted or colored in a variety of transparent and opaque shades. Compared to KR03, BK11 offers improved mold release with the same injection molding process conditions, and equivalent molded part performance and properties. Molded parts offer excellent clarity, good toughness, good stiffness, and high surface gloss. **Applications:** Major applications include molded boxes and containers, toys, displays, medical devices, overcaps, and novelties. **Processing Recommendations:** Injection Molding: Minimum melt temperature between 193-232°C necessary to permit mold fill. Minimum injection pressure required to fill the cavity. Maximum back pressure of 0.3 MPa. Drying: Generally, no need to dry resin. **Specification Data:** FDA Regulation 21 CFR 177.1640. Suitable for contact with non-fatty foods. [Parts over 0.200 inches thick, for alcoholic beverages, or for high temperature food use (hot filled over 150°F or heat sterilized over 212°F) would require additional testing. Data provided by Chevron Phillips Chemical Company LP.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-K-Resin-BK11-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 %	24 hours, 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	Type 1 @ 2 in/min; ASTM D638
Elongation at Break	160 %	160 %	Type 1 @ 2 in/min; ASTM D638
Flexural Yield Strength	34.0 MPa	4930 psi	ASTM D790
Flexural Modulus	1.413 GPa	204.9 ksi	ASTM D790
Izod Impact, Notched	0.400 J/cm @Thickness 3.17 mm	0.749 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
Deflection Temperature at 1.8 MPa (264 psi)	73.0 °C	163 °F	ASTM D648
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
Melt Temperature	193 - 232 °C	379 - 450 °F	Injection

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