

Chevron Phillips K-Resin® BK15 Styrene-Butadiene Copolymer, Injection Molding Grade (discontinued **)

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

Material Notes:

Styrene-Butadiene Copolymer Customer Benefits: BK15 is an SBC consisting of our developmental BK10 grade with a mold release added for easier processing. BK15 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 BK10, BK15 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 Regulations 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-BK15-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
Melt Flow	15 g/10 min @Load 5.00 kg, Temperature 200 °C	15 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	67	67	ASTM D2240
Tensile Strength, Yield	21.4 MPa	3100 psi	2 in per min; ASTM D638; Test specimens were injection molded by ASTM D1897.
Elongation at Break	200 %	200 %	2 in per min; ASTM D638; Test specimens were injection molded by ASTM D1897.
Flexural Yield Strength	31.7 MPa	4600 psi	Test specimens were injection molded by ASTM D1897; ASTM D790
Flexural Modulus	1.482 GPa	214.9 ksi	Test specimens were injection molded by ASTM D1897; ASTM D790
Izod Impact, Notched	0.747 J/cm @Thickness 3.17 mm	1.40 ft-lb/in @Thickness 0.125 in	ASTM D256
	29.7 J	21.9 ft-lb	Instrumented Total Energy; @ 150

Mechanical Properties	Metric @ Thickness 3.17 mm	English @ Thickness 0.125 in	Comments
Impact Test in/sec impact rate; ASTM D3763			
Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	62.0 °C	144 °F	ASTM D648
Vicat Softening Point	80.0 °C	176 °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

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