

Chevron Phillips K-Resin® BK10 Styrene-Butadiene Copolymer, Injection Molding Grade

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

Material Notes:

Styrene-Butadiene Copolymer Customer Benefits: BK10 is an SBC developed specifically to have enhanced flow capabilities. It offers improved processability and lower cycle times with the optical clarity, impact toughness, and high gloss K-Resin SBC are known for. BK10 is easily processed by injection molding and molded parts give excellent detail on fast production cycles. It can be tinted or colored in a variety of transparent and opaque shades. Molded parts offer excellent clarity, good toughness, good stiffness, and high surface gloss.

Applications: Major applications include molded containers and bottles, medical devices, overcaps, displays, and toys.

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 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-BK10-Styrene-Butadiene-Copolymer-Injection-Molding-Grade.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	Type 1 @ 2 in/min; ASTM D638
Elongation at Break	200 %	200 %	Type 1 @ 2 in/min; ASTM D638
Flexural Yield Strength	31.7 MPa	4600 psi	ASTM D790
Flexural Modulus	1.482 GPa	214.9 ksi	ASTM D790
Izod Impact, Notched	NB @Thickness 3.17 mm	NB @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	62.0 °C	144 °F	

(264 psi) Thermal Properties	Metric	English	ASTM D648 Comments
Vicat Softening Point	80.0 °C	176 °F	ASTM D1525
Flammability, UL94	HB	HB	

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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