

## Chevron Phillips K-Resin® BK13 Styrene-Butadiene Copolymer, Injection Molding Grade (discontinued \*\*)

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

### Material Notes:

Styrene-Butadiene CopolymerBK13 is an SBC developed specifically to have enhanced flow capabilities and improved stiffness over the KR01 grade. BK13 molded parts give excellent detail on rapid production cycles, and are easily processed by injection molding. This resin can be tinted or colored in a variety of transparent and opaque shades. Applications: Major applications include displays, medical devices, overcaps, housings, 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. Data provided by Chevron Phillips Chemical Company LP.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chevron-Phillips-K-Resin-BK13-Styrene-Butadiene-Copolymer-Injection-Molding-Grade-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Chevron-Phillips-K-Resin-BK13-Styrene-Butadiene-Copolymer-Injection-Molding-Grade-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in <sup>3</sup>	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	76	76	ASTM D2240
Tensile Strength, Yield	39.0 MPa	5660 psi	2 in per min; ASTM D638; Test specimens were injection molded by ASTM D1897.
Elongation at Break	5.0 %	5.0 %	2 in per min; ASTM D638; Test specimens were injection molded by ASTM D1897.
Flexural Yield Strength	69.0 MPa	10000 psi	Test specimens were injection molded by ASTM D1897; ASTM D790
Flexural Modulus	2.158 GPa	313.0 ksi	Test specimens were injection molded by ASTM D1897; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	66.0 °C	151 °F	ASTM D648
Vicat Softening Point	89.0 °C	192 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Transmission, Visible	93 %	93 %	ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	193 - 232 °C	379 - 450 °F	Injection

## Contact Songhan Plastic Technology Co.,Ltd.

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