

Chevron Phillips K-Resin® CK02 Styrene-Butadiene Copolymer, Blow Molding Grade (discontinued **)

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

Material Notes:

Styrene-Butadiene Copolymer Customer Benefits: CK02 is a blow molding SBC designed to provide a softer, tougher, more flexible container while retaining the clarity and gloss of bottles produced from KR05. Finished products have low stiffness, excellent clarity, high surface gloss, and excellent toughness. **K-Resin provides integral handles and wide mouth containers.** **Applications:** Major applications include squeeze bottles, food containers, medical packaging, and toys. **Processing Recommendations:** Can be processed on extrusion blow, injection stretch, and injection blow. **Extrusion:** Recommended maximum melt temperature is 195°C. **Injection:** Recommended maximum melt temperature, 216°C. High shear and restrictive type screws tend to degrade the melt. 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-CK02-Styrene-Butadiene-Copolymer-Blow-Molding-Grade-discontinued-.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	ASTM D792
Melt Flow	10 g/10 min @Load 5.00 kg, Temperature 200 °C	10 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	91	91	ASTM D2240
Tensile Strength, Yield	15.2 MPa	2200 psi	2 in per min; ASTM D638; Test specimens were injection molded by ASTM D1897.
Elongation at Break	330 %	330 %	2 in per min; ASTM D638; Test specimens were injection molded by ASTM D1897.
Flexural Yield Strength	22.2 MPa	3220 psi	Test specimens were injection molded by ASTM D1897; ASTM D790
Flexural Modulus	0.696 GPa	101 ksi	Test specimens were injection molded by ASTM D1897; ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
Impact Test	37.6 J	27.7 ft-lb	Instrumented Total Energy; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa	39.0 °C	102 °F	

(264 psi) Thermal Properties	Metric	English	ASTM D648 Comments
Vicat Softening Point	59.0 °C	138 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Gloss	146 %	146 %	60°
Transmission, Visible	91 %	91 %	

Processing Properties	Metric	English	Comments
Processing Temperature	<= 216 °C	<= 421 °F	

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