

Chevron Phillips K-Resin® XK40 Styrene-Butadiene Copolymer, Sheet Grade

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

Material Notes:

Styrene-Butadiene Copolymer Customer Benefits: XK40 is an extrusion grade SBC designed specifically for superior performance in blends with general purpose polystyrene. Compared to KK38, KX40 offers greater polystyrene acceptance and better clarity. Applications: Major applications include thermoformed blister packs, cups and lids, and portion packages. Processing Recommendations: Extrusion: Melt Temperature, 218°C maximum. 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-XK40-Styrene-Butadiene-Copolymer-Sheet-Grade.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	65	65	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 @Thickness 3.17 mm	NB @Thickness 0.125 in	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 (264 psi)	39.0 °C	102 °F	ASTM D648

Optical Properties	Metric	English	Comments
Transmission, Visible	91 %	91 %	

Processing Properties	Metric	English	Comments
Processing Temperature	<= 218 °C	<= 424 °F	extrusion

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