

Chevron Phillips K-Resin® XK41 Styrene-Butadiene Copolymer, Sheet Grade

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

Material Notes:

Styrene-Butadiene Copolymer Customer Benefits: XK41 is an extrusion grade of K-Resin SB copolymer designed specifically for improved performance in blends with general purpose polystyrene. It is easily processed by extrusion and gives thermoformed parts with excellent detail on fast production cycles. Compared to KR05, XK41 offers greater polystyrene acceptance with equivalent processability.

Thermoformed parts have very good clarity, very good toughness, and good stiffness. **Applications:** Major applications include thermoformed blister packs, cups and lids, and portion packages. **Processing Recommendations:** Melt Temperature: 218°C maximum. High shear and restrictive type screws tend to degrade the melt. Generally no need to dry resin. **Specification Data:** When combined with at least 8% food grade polystyrene to produce articles for food contact, XK41 complies with FDA Regulation 21 CFR 177.1640. Data provided by Chevron Phillips Chemical Company LP.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-K-Resin-XK41-Styrene-Butadiene-Copolymer-Sheet-Grade.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ASTM D792
Melt Flow	7.5 g/10 min	7.5 g/10 min	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	ASTM D2240
Tensile Strength, Yield	18.8 MPa	2730 psi	2 in per min; ASTM D638; Test specimens were injection molded by ASTM D1897.
Elongation at Break	251 %	251 %	2 in per min; ASTM D638; Test specimens were injection molded by ASTM D1897.
Flexural Yield Strength	29.5 MPa	4280 psi	Test specimens were injection molded by ASTM D1897; ASTM D790
Flexural Modulus	1.2075 GPa	175.14 ksi	Test specimens were injection molded by ASTM D1897; ASTM D790
Izod Impact, Notched	0.430 J/cm	0.806 ft-lb/in	ASTM D256
Impact Test	28.2 J	20.8 ft-lb	Instrumented Total Energy; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	52.0 °C	126 °F	ASTM D648
Vicat Softening Point	69.0 °C	156 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Transmission, Visible	89.3 %	89.3 %	

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

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