Chevron Phillips K-Resin® KR05NW Styrene-Butadiene Copolymer, Sheet and Blow Mold Grade

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

Material Notes:

Styrene-Butadiene Copolymer. No wax (NW) form of K-Resin® KR05 to facilitate printing.Customer Benefits: This SBC is easily processed on blow molding or extrusion and thermoforming equipment. Finished products have excellent clarity, good toughness, good stiffness, high surface gloss, good formability. KR05NW is the no wax form of KR05 to facilitate printing and decorating.Applications: Major applications include bottles, profiles, displays, containers, and unblended sheet.Processing Recommendations:Sheet Extrusion: Melt Temperature, 218°C maximum. High shear and restrictive type screws tend to degrade the melt. Generally no need to dry resin. Blow Molding: 188-196°C for maximum melt strength. Generally no need to dry resin. Injection Blow Molding: Melt Temperature, 232°C maximum. 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-KR05NW-Styrene-Butadiene-Copolymer-Sheet-and-Blow-Mold-Grade.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in³	ASTM D792
Water Absorption	0.090 %	0.090 %	ASTM D570
Melt Flow	7.5 g/10 min @Load 5.00 kg, Temperature 200 °C	7.5 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	26.0 MPa	3770 psi	Type 1 @ 2 in/min; ASTM D638
Elongation at Break	160 %	160 %	Type 1 @ 2 in/min; ASTM D638
Flexural Yield Strength	34.0 MPa	4930 psi	ASTM D790
Flexural Modulus	1.413 GPa	204.9 ksi	ASTM D790
Izod Impact, Notched	0.410 J/cm @Thickness 3.17 mm	0.768 ft-lb/in @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

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	73.0 °C	163 °F	ASTM D648
Vicat Softening Point	87.0 °C	189 °F	Condition B (50N); ASTM D1525
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	ASTM D1003

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

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