

Chevron Phillips K-Resin® DK13 Styrene-Butadiene Copolymer, Film Grade (discontinued **)

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

Material Notes:

Styrene-Butadiene Copolymer. Properties below based on 1 mil (0.025 mm) film; 2.5:1 Blow Up Ratio; 35 mil (0.90 mm) die gap. Customer Benefits: DK13 is an SBC designed for the film market and has increased tear and higher elongation properties. It has improved processability and a reduced tendency to form wrinkles during the film manufacturing and converting process. Film produced has excellent clarity, high surface gloss, good heat sealability, good toughness, good stiffness, and excellent tear strength. Film shrinkage is 72% MD and 31% TD. Applications: Major applications include medical packaging, produce packaging, skin packaging, twist wrap, lidstock film, labeling film, decorative films, industrial films, shrink wrap, overwrap film, barrier film, and tamper evident packaging Processing Recommendations: Blown Film: Melt temperature between 166-193°C recommended. Cast film: Melt temperature between 193-216°C recommended. High shear and restrictive type screws tend to degrade the melt. 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-DK13-Styrene-Butadiene-Copolymer-Film-Grade-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	ASTM D792
Moisture Vapor Transmission	0.300 cc-mm/m ² -24hr-atm	0.762 cc-mil/100 in ² -24hr-atm	@ 23°C; ASTM F1249
Oxygen Transmission	100 cc-mm/m ² -24hr-atm	254 cc-mil/100 in ² -24hr-atm	ASTM D3985
Melt Flow	10 g/10 min	10 g/10 min	Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	20.0 MPa	2900 psi	2 in per min; ASTM D882
Film Tensile Strength at Yield, TD	16.0 MPa	2320 psi	2 in per min; ASTM D882
Film Elongation at Break, MD	207 %	207 %	ASTM D882
Film Elongation at Break, TD	260 %	260 %	ASTM D882
Secant Modulus, MD	0.696 GPa	101 ksi	at 1%; ASTM D882
Secant Modulus, TD	0.469 GPa	68.0 ksi	at 1%; ASTM D882
Elmendorf Tear Strength, MD	0.175 g/micron	4.44 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	0.0760 g/micron	1.93 g/mil	ASTM D1922

Dart Drop Test Mechanical Properties	325 g Metric	0.717 lb English	25 in: ASTM D1709 Comments
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Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	ASTM D1003
Gloss	125 %	125 %	45°; ASTM D2457
Transmission, Visible	94 %	94 %	ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	166 - 193 °C	331 - 379 °F	Blown Film

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