

Chevron Phillips K-Resin® KR10 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: This SBC is easily processed on blown film or cast film equipment to give tough, high clarity film. Film produced has excellent clarity, good toughness, excellent stiffness, good heat sealability, high surface gloss, and high permeation. Has a puncture value of 1.2 J as per ASTM D3763, a 99 % crease retention as per TAPPI T446-B, and a 0.6 g mm/m² 24h moisture vapor transmission as per ASTM F1249 at 23°C. Film shrinkage is 67% MD and 48% 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, 166-193°C recommended. Cast Film: Melt Temperature, 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.

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http://www.lookpolymers.com/polymer_Chevron-Phillips-K-Resin-KR10-Styrene-Butadiene-Copolymer-Film-Grade-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ASTM D792
Moisture Vapor Transmission	0.600 cc-mm/m ² -24hr-atm	1.52 cc-mil/100 in ² -24hr-atm	@ 23°C; ASTM F1249
Oxygen Transmission	173 cc-mm/m ² -24hr-atm	439 cc-mil/100 in ² -24hr-atm	ASTM D3985
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
Film Tensile Strength at Yield, MD	26.0 MPa	3770 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	65 %	65 %	ASTM D882
Film Elongation at Break, TD	175 %	175 %	ASTM D882
Secant Modulus, MD	1.275 GPa	184.9 ksi	at 1%; ASTM D882
Secant Modulus, TD	0.883 GPa	128 ksi	at 1%; ASTM D882
Elmendorf Tear Strength, MD	0.0217 g/micron	0.550 g/mil	ASTM D1922

Elmendorf Tear Strength, TD Mechanical Properties	0.0272 g/micron Metric	0.690 g/mil English	ASTM D1922 Comments
Dart Drop Test	345 g	0.761 lb	26 in; ASTM D1709

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Haze	2.0 %	2.0 %	ASTM D1003
Gloss	129 %	129 %	45°; ASTM D2457
Transmission, Visible	99 %	99 %	ASTM D1003

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

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