Chevron Phillips K-Resin® DK11 Styrene-Butadiene Copolymer, Film Grade

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: Provides the same high performance film properties as KR10 with added thermal stability and a broader processing window. Film produced has excellent clarity, high surface gloss, good heat sealability, good toughness, good stiffness, and high permeation. Has a puncture value of 1.2 J as per ASTM D3763. Has a crease retention of 99% as per TAPPI T446-B. Also has a moisture vapor transmission value of 0.6 g mm/m² 24hr 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 packagingProcessing 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.

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http://www.lookpolymers.com/polymer_Chevron-Phillips-K-Resin-DK11-Styrene-Butadiene-Copolymer-Film-Grade.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/m²-24hr- atm	1.52 cc-mil/100 in²- 24hr-atm	@ 23°C; ASTM F1249
Oxygen Transmission	173 cc-mm/m²-24hr- atm	439 cc-mil/100 in²- 24hr-atm	ASTM D3985
Melt Flow	7.5 g/10 min	7.5 g/10 min	Condition G; 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	1.276 GPa	185.1 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	0.0272 g/micron	0.690 g/mil	ASTM D1922
Dart Drop Test	345 g	0.761 lb	26 in; ASTM D1709

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Optical Properties	Metric	English	Comments
Haze	2.0 %	2.0 %	ASTM D1003
Gloss	129 %	129 %	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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