Chevron Phillips K-Resin® KR53 Styrene-Butadiene Copolymer

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

Material Notes:

Customer Benefits:Excellent ClarityHigh Surface GlossGood ToughnessGood Heat SealabilityTypical Applications:Medical PackagingProduce PackagingTwist WrapLidstock and Labeling FilmInformation provided by Chevron Phillips Chemical Company LP.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Chevron-Phillips-K-Resin-KR53-Styrene-Butadiene-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.02 g/cc	1.02 g/cc	ASTM D792
Water Vapor Transmission	1.50 g/m²/day	0.0966 g/100 in²/day	ASTM F1249
Oxygen Transmission Rate	110 cc/m²/day	7.08 cc/100 in²/day	ASTM D3985
Thickness	25.4 microns	1.00 mil	For Testing
Melt Flow	10 g/10 min @Load 5.00 kg, Temperature 200 °C	10 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	25.0 MPa	3630 psi	ASTM D882
Film Tensile Strength at Yield, TD	20.0 MPa	2900 psi	ASTM D882
Film Elongation at Yield, MD	175 %	175 %	ASTM D882
Film Elongation at Yield, TD	180 %	180 %	ASTM D882
Puncture Energy	1.10 J	0.811 ft-lb	ASTM D3763
Elmendorf Tear Strength MD	20 g	20 g	ASTM D1922
Elmendorf Tear Strength TD	25 g	25 g	ASTM D1922
Elmendorf Tear Strength, MD	0.787 g/micron	20.0 g/mil	1 mil; ASTM D1922
Elmendorf Tear Strength, TD	0.984 g/micron	25.0 g/mil	1 mil; ASTM D1922
Dart Drop	22.8 g/micron	580 g/mil	1 mil; ASTM D1709
Dart Drop Test	580 g	1.28 lb	ASTM D1709
1% Secant Modulus, MD	750 MPa	109000 psi	ASTM D882
1% Secant Modulus, TD	590 MPa	85600 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	63.0 °C	145 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	0.20 %	0.20 %	ASTM D1003
Gloss	140 %	140 %	ASTM D523

Processing Properties	Metric	English	Comments
Die Opening	0.0900 cm	0.0354 in	For Testing
Blow-up Ratio (BUR)	2.5	2.5	For Testing

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