

K-Resin KR53

Styrene Butadiene Copolymer (SBC)

TECHNICAL DATASHEET

DESCRIPTION

K-Resin® KR53 makes a clear, stiff, very tough, high gloss film suitable for applications such as candy twist wrap, shrink sleeves and overwrap.

FEATURES

- Excellent Clarity
- High Surface Gloss
- Good Toughness
- Good Heat Sealability

APPLICATIONS

- Medical Packaging
- Produce Packaging
- Twist Wrap
- Lidstock and Labeling Film

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 200 °C/5 kg	ISO 1133	g/10 min	10.0
Mechanical Properties			
Elongation at Break (MD)	ISO 527	%	175
Elongation at Break (TD)		%	180
Flexural Strength, 23 °C	ASTM D 790	psi	-
Elmendorf Tear (MD)		g	20
Elmendorf Tear (TD)		g	25
Puncture, Energy at Peak Force		J	1.1
Tensile Yield Strength (MD)	ASTM D 882	MPa	25
Tensile Yield Strength (TD)	ASTM D 882	MPa	20
Secant Modulus, 1% MD	ASTM D 882	MPa	750
Secant Modulus, 1% TD	ASTM D 882	MPa	590
Dart Drop, 26 in (66 mm)	ASTM D1709	g	580
Thermal Properties			
Vicat Softening Temperature, B/1 (120 °C/h, 10N)	ASTM D 1525	°C	63
Optical Properties			
Light Transmission at 550 nm	ASTM D 1003	%	-

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Property, Test Condition	Standard	Unit	Values
Haze	ASTM D 1003	%	0.2
Gardner Gloss (mold temperature 100°F)	ASTM D2457	%	140
Other Properties			
Density	ISO 1183	kg/m ³	1020
Oxygen Transmission Rate (23 °C/0% RH)		cc/m ² /day	110
Water Vapor Transmission Rate (WVTR) (23 °C/0% to 85% RH gradient)	DIN 53122	g/m ² /day	1.5