

K-Resin DK11E

Styrene Butadiene Copolymer (SBC)

TECHNICAL DATASHEET

DESCRIPTION

K-Resin® DK11E makes a clear, stiff, very tough, high gloss film suitable for applications such as candy twist wrap, shrink sleeves and overwrap. K-Resin® SBC grade designed for blown film extrusion is DK11E.

FEATURES

- Excellent Clarity
- High Surface Gloss
- 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	ASTM D 1238	g/10 min	7.5
Mechanical Properties			
Elongation at Break (MD)	ASTM D 882		110
Elongation at Break (TD)	ASTM D 882	%	200
Elmendorf Tear (MD)	ASTM D 1922	lbs	0.02
Elmendorf Tear (TD)	ASTM D 1922	lbs	0.3
Puncture, Energy at Peak Force	ASTM D 3763	in-lb	8
Tensile Yield Strength (MD)	ASTM D 882	psi	5000
Tensile Yield Strength (TD)	ASTM D 882	psi	3050
Secant Modulus, 1% MD	ASTM D 882	psi	205000
Secant Modulus, 1% TD	ASTM D 882	psi	140000
Dart Drop, 26 in (66 mm)	ASTM D1709	g	590
Thermal Properties			
Vicat Softening Temperature, B/1 (120 °C/h, 10N)	ASTM D 1525	°F	185
Optical Properties			
Haze	ASTM D 1003	%	0.9
Gardner Gloss (mold temperature 100°F)	ASTM D2457	%	140

K-Resin DK11E

Styrene Butadiene Copolymer (SBC)

TECHNICAL DATASHEET

Property, Test Condition	Standard	Unit	Values
Light Transmission at 550 nm	ASTM D 1003	%	92
Other Properties			
Density (ASTM)	ASTM D 792	g/cm ³	1.01
Oxygen Transmission Rate (23 °C/0% RH)	ASTM D 3985	cc/100in ² /day	420
Water Vapor Transmission Rate (WVTR) (23 °C/0% to 85% RH gradient)	ASTM F1249-06	g/100in ² /day	5.5