INEOS STYROLUTION

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
Elemendorf Tear (MD)	ASTM D 1922	lbs	0.02
Elemendorf Tear (TD)	ASTM D 1922	lbs	0.0033
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	3100
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			
Gardner Gloss (mold temperature 100°F)	ASTM D2457	%	140
Haze	ASTM D 1003	%	< 0.9

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Property, Test Condition	Standard	Unit	Values
Light Transmission at 550 nm	ASTM D 1003	%	92
Other Properties			
Density (ASTM)	ASTM D 792	g/cm³	1.01
Oxygen Transmission Rate (23 °C/0% RH)	ASTM D 3985	cc/100in²/day	420
Water Vapor Transmission Rate (WVTR) (23 °C/0% to 85% RH gradient)	ASTM F1249-06	g/100in²/day	5.5

Typical values for uncolored products
Please note that all processing data stated are only indicative and may vary depending on the individual processing complexities.
Please consult our local sales or technical representatives for details.

SUPPLY FORM

Pellet

DISCLAIMER

The above mentioned data are accurate to the best of our knowledge. They are based upon reputable labs and industry standard testing methods. These are only typical values and actual product specification may deviate at industrial range. Therefore, no data in this technical data sheet shall constitute a warranty or representation regarding product features, fitness of the product for a specific purpose or application or its processability. INEOS Styrolution disclaims all liability in connection therewith. The customer himself is required to verify whether or not the product is suitable for the further processing or application intended and whether or not the product complies with the relevant statutory requirements. Unless explicitly and individually otherwise agreed in writing, INEOS Styrolution's sole and exclusive liability with respect to its products is set forth in INEOS Styrolution's General Terms and Conditions for Sale.

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