INEOS STYROLUTION

K-Resin KR38

Styrene Butadiene Copolymer (SBC)

TECHNICAL DATASHEET

DESCRIPTION

K-Resin® KR38 alone or in blends, can be extruded into sheet and thermoformed on conventional equipment at high output rates. The favorable economics of K-Resin SBC, along with high productivity, have made possible tough clear disposable drinking cups, lids and other packaging applications. INEOS Styrolution has several grades of K-Resin SBC tailored for your sheet extrusion needs.

FEATURES

- Combines Clarity and Toughness
- Good Formability
- High Surface Gloss
- Good Toughness and Stiffness

APPLICATIONS

- Thermoformed Blister Packs
- Portion Packages
- Cups and Lids

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 200 °C/5 kg	ISO 1133	g/10 min	9.0
Mechanical Properties			
Instrumented Dart Impact (total energy)		J	38.4
Tensile Stress at Yield, 23 °C	ISO 527	MPa	16.2
Tensile Strain at Break, 23 °C	ISO 527	%	260
Flexural Strength, 23 °C	ISO 178	MPa	25
Flexural Modulus, 23 °C	ISO 178	MPa	1,365
Hardness, Shore D	ISO 868	-	56
Thermal Properties			
Vicat Softening Temperature, B/1 (120 °C/h, 10N)	ASTM D 1525	°C	74.4
DTUL @ 264 psi - Annealed		°C	56.7
Optical Properties			
Light Transmission at 550 nm	ASTM D 1003	%	92
Other Properties			
Density	ISO 1183	kg/m³	1000

Typical values for uncolored products

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