

K-Resin XK40

Styrene Butadiene Copolymer (SBC)

TECHNICAL DATASHEET

DESCRIPTION

K-Resin® XK40 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

APPLICATIONS

- Thermoformed Blister Packs
- Portion Packages
- Cups and Lids

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 200 °C/5 kg	ASTM D 1238	g/10 min	10.0
Mechanical Properties			
Instrumented Dart Impact (total energy)	ASTM D 3763	in-lbs	380
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	2,240
Tensile Strain at Break, 23 °C	ASTM D 638	%	339
Flexural Strength, 23 °C	ASTM D 790	psi	3,535
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 ³	122,800
Hardness, Shore D	ASTM D 2240	-	60
Thermal Properties			
Vicat Softening Temperature, B/1 (120 °C/h, 10N)	ASTM D 1525	°F	145
DTUL @ 264 psi - Annealed	ASTM D 648	°F	117
Optical Properties			
Light Transmission at 550 nm	ASTM D 1003	%	90
Other Properties			
Density	ASTM D 792	-	1.02

The nominal properties herein are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes. Values are rounded.

[Tensile Yield Strength/Tensile Yield Strength] = Type 1 @ 2 in/min (50 mm/min)

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[Flexural Modulus/Flexural Yield Strength] = 0.125 in (3.2 mm) specimen @ 0.5 in/sec (1.27 cm/min)

[Instrumented Dart Impact] = Total Energy 3.2 mm, 381 cm/s, 12.7 mm tup

DISCLAIMER

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