

# K-Resin KR40

Styrene Butadiene Copolymer (SBC)

## TECHNICAL DATASHEET

### DESCRIPTION

K-Resin® KR40 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
<b>Rheological Properties</b>			
Melt Flow Rate, 200 °C/5 kg	ISO 1133	g/10 min	10.0
<b>Mechanical Properties</b>			
Instrumented Dart Impact (total energy)		J	43
Tensile Stress at Yield, 23 °C	ISO 527	MPa	15.4
Tensile Strain at Break, 23 °C	ISO 527	%	339
Flexural Strength, 23 °C	ISO 178	MPa	24.4
Flexural Modulus, 23 °C	ISO 178	MPa	847
Hardness, Shore D	ISO 868	-	60
<b>Thermal Properties</b>			
Vicat Softening Temperature, B/1 ( 120 °C/h, 10N)	ASTM D 1525	°C	63
DTUL @ 264 psi - Annealed		°C	47
<b>Optical Properties</b>			
Light Transmission at 550 nm	ASTM D 1003	%	90
<b>Other Properties</b>			
Density	ISO 1183	kg/m <sup>3</sup>	1020