

# K-Resin XK44

Styrene Butadiene Copolymer (SBC)

## TECHNICAL DATASHEET

### DESCRIPTION

K-Resin® XK44 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. K-Resin® XK44 will process on most conventional equipment, allowing the molder to run a crystal clear bottle without expensive machine modifications, special molds, different screws, or dryers. K-Resin® SBC are blow molded in a broad range of sizes and shapes, from small pill bottles and medical drainage units, to very tall display bottles. They can also be injection blow molded into extremely high impact bottles with glass-like clarity.

### FEATURES

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

### APPLICATIONS

- Thermoformed Clam Shell Packaging
- Thermoformed Blister Packs
- Thermoformed Medical Trays
- Blow Molded Products

Property, Test Condition	Standard	Unit	Values
<b>Rheological Properties</b>			
Melt Flow Rate, 200 °C/5 kg	ISO 1133	g/10 min	6.0
<b>Mechanical Properties</b>			
Instrumented Dart Impact (total energy)		J	47.5
Tensile Stress at Yield, 23 °C	ISO 527	MPa	21.6
Tensile Strain at Break, 23 °C	ISO 527	%	350
Flexural Strength, 23 °C	ISO 178	MPa	34.5
Flexural Modulus, 23 °C	ISO 178	MPa	1,122
Hardness, Shore D	ISO 868	-	65
<b>Thermal Properties</b>			
Vicat Softening Temperature, B/1 ( 120 °C/h, 10N)	ASTM D 1525	°C	75.6
DTUL @ 264 psi - Annealed		°C	53
<b>Optical Properties</b>			
Light Transmission at 550 nm	ASTM D 1003	%	93
<b>Other Properties</b>			

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Property, Test Condition	Standard	Unit	Values
Density	ISO 1183	kg/m <sup>3</sup>	1010