INEOS STYROLUTION

K-Resin KR01

Styrene Butadiene Copolymer (SBC)

TECHNICAL DATASHEET

DESCRIPTION

K-Resin® KR01 process very well in injection molding, providing good cycle times and design flexibility. Applications range from containers and packaging with living hinges to medical applications, toys, displays, overcaps and hangers. INEOS Styrolution has several grades of K-Resin® SBC tailored for your injection molded needs.

FEATURES

- Excellent Clarity
- Good Stiffness
- Good Toughness
- High Surface Gloss
- Warpage Resistance

APPLICATIONS

- Molded Boxes with Integral Hinges
- Medical Devices
- Displays
- Toys

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 200 °C/5 kg	ISO 1133	g/10 min	8.0
Mechanical Properties			
Instrumented Dart Impact (total energy)		J	2.1
Tensile Stress at Yield, 23 °C	ISO 527	MPa	33.4
Tensile Strain at Break, 23 °C	ISO 527	%	30
Flexural Strength, 23 °C	ISO 178	MPa	54
Flexural Modulus, 23 °C	ISO 178	MPa	1,800
Hardness, Shore D	ISO 868	-	69
Thermal Properties			
Vicat Softening Temperature, B/1 (120 °C/h, 10N)	ASTM D 1525	°C	90
DTUL @ 264 psi - Annealed		°C	64
Optical Properties			
Light Transmission at 550 nm	ASTM D 1003	%	93
Gardner Gloss (mold temperature 100°F)	ASTM D2457	%	164
Other Properties			

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Property, Test Condition	Standard	Unit	Values
Density	ISO 1183	kg/m³	1010