

K-Resin® KR38

SB

INEOS Styrolution

K-Resin® KR38 alone or in blends, can be easily processed by extrusion and gives thermoformed parts with excellent detail on fast production cycles. The favorable economics of K-Resin SBC, along with high productivity, have made possible tough clear disposable drinking cups, lids, IC carrier tape and other packaging applications.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	9	cm ³ /10min	ISO 1133
Temperature	200	°C	-
Load	5	kg	-
Melt Flow Index, MFI	9	g/10min	ISO 1133
MFI temperature	200	°C	-
MFI load	5	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	900	MPa	ISO 527
Impact Strength (Charpy), +23°C	no break	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	50	kJ/m ²	ISO 179/1eA
Flexural Modulus (23°C)	1360	MPa	ISO 178

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	55	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	73	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	50	°C	ISO 306
ASTM Data			
Vicat Temperature	74.4	°C	ASTM D 1525

Other Properties	Value	Unit	Test Standard
ISO Data			
Humidity absorption	0.07	%	Sim. to ISO 62
Density	1000	kg/m ³	ISO 1183

Optical Properties	Value	Unit	Test Standard
ASTM Data			
Light Transmittance	92	%	ASTM D 1003

Characteristics

Processing

Sheet Extrusion, Blow Molding, Thermoforming

Delivery form

Pellets

Special Characteristics

Transparent

Features

Blending Resin, High Gloss, Copolymer

Certifications

Water contact

Applications

Packaging

Injection Molding