

Elvakon® 4451

Polymethyl Methacrylate Acrylic
Lucite International Inc.

Message:

Super low gloss acrylic capstock Lucite® Elvakon® 4451

General Information			
Features	Low Gloss		
Uses	Capstock		
Appearance	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/1.2 kg)	3.0	g/10 min	ISO 1133
Water Absorption (23°C, 24 hr)	0.40	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	37.0	MPa	ISO 527-2
Tensile Strain (Break)	10	%	ISO 527-2
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress	51.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	33	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	3.3	kJ/m ²	ISO 180/1A
Multi-Axial Instrumented Impact Energy	1.20	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	82.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	71.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	89.0	°C	ISO 306/A
--	76.0	°C	ISO 306/B

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