

Elvakon® 4452

Polymethyl Methacrylate Acrylic

Lucite International Inc.

Message:

Elvakon® 4452 is a Polymethyl Methacrylate Acrylic material. It is available in Europe or North America. Primary attribute of Elvakon® 4452: Low Gloss.
Typical application of Elvakon® 4452: Capstock

General Information			
Features	Low Gloss		
Uses	Capstock		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	9.0	g/10 min	ISO 1133
Water Absorption (23°C, 24 hr)	0.39	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	139		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	44.0	MPa	ISO 527-2
Tensile Strain (Break)	8.0	%	ISO 527-2
Flexural Modulus	3000	MPa	ISO 178
Flexural Stress	61.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.9	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	28	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	2.8	kJ/m ²	ISO 180/1A
Multi-Axial Instrumented Impact Energy	1.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	84.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	72.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	90.0	°C	ISO 306/A50
--	78.0	°C	ISO 306/B50

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