

Elvakon® 4490

Polymethyl Methacrylate Acrylic
Lucite International Inc.

Message:
High gloss acrylic capstock Lucite® Elvakon® 4490

General Information			
Features	High Gloss		
Uses	Capstock		
Appearance	Clear/Transparent		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/1.2 kg)	3.9	g/10 min	ISO 1133
Water Absorption (23°C, 24 hr)	0.38	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	72		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	29.0	MPa	ISO 527-2
Tensile Strain (Break)	59	%	ISO 527-2
Flexural Modulus	1200	MPa	ISO 178
Flexural Stress	38.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	9.3	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	120	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength	8.1	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	60.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	84.0	°C	ISO 306/A
--	66.0	°C	ISO 306/B
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ISO 489
Transmittance	88.5	%	ASTM D1003

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

