

Plaskolite Optix® CA-1000 I Clear High Impact Acrylic Resin

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Impact Modified, Molded

Material Notes:

High impact acrylic resin, injection molding grade
 Applications: A high-impact acrylic resin for injection molding. This resin offers impact strengths up to ten times of general-purpose acrylic resins. Can be used for FDA food use or USP medical use. (Meets FDA CFR-21 Sec 177.1010 for food use. Meets USP Plastic Class VI for medical use.)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plaskolite-Optix-CA-1000-I-Clear-High-Impact-Acrylic-Resin.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ASTM D792
Melt Flow	2.8 g/10 min	2.8 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	42.1 MPa	6110 psi	ASTM D638
Elongation at Break	14 %	14 %	ASTM D638
Modulus of Elasticity	2.03 GPa	294 ksi	ASTM D638
Flexural Strength	61.4 MPa	8910 psi	ASTM D790
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256
Impact Test	5.50 J	4.06 ft-lb	Falling weight impact per ASTM D3029 GB

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	78.0 °C	172 °F	ASTM D648
Vicat Softening Point	108 °C	226 °F	Rate A, ASTM D1525
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Transmission, Visible	90.8 %	90.8 %	ASTM D1003

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