

Ensinger TECACRYL®

Category : Polymer , Thermoplastic , Acrylic (PMMA)

Material Notes:

TECACRYL® offers excellent weather resistance, high light transmission, high mechanical strength, high surface hardness and mar resistance, good melt flow rate, and versatile colorability due to crystal clarity. In addition, a special property of TECACRYL polymer includes superior heat resistance and a high level of transparency. Good Transparency Exceptional Durability Excellent Mechanical Strength Because it is tough, more transparent than glass and twice as light, TECACRYL is ideal for a wide variety of commercial and industrial applications. Information provided by Ensinger

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-TECACRYL.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Water Absorption	0.30 % @Time 86400 sec	0.30 % @Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	94	94	ASTM D785
Tensile Strength, Yield	65.5 MPa	9500 psi	ASTM D638
Elongation at Yield	4.0 - 6.0 %	4.0 - 6.0 %	ASTM D638
Tensile Modulus	3.24 GPa	470 ksi	1mm/min; ASTM D638
Flexural Strength	117 MPa	17000 psi	ASTM D790
Flexural Modulus	3.38 GPa	490 ksi	ASTM D790
Compressive Strength	117 MPa	17000 psi	ASTM D695
Izod Impact, Notched	0.192 J/cm	0.360 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	90.0 °C	194 °F	long term
Deflection Temperature at 1.8 MPa (264 psi)	93.9 °C	201 °F	ASTM D648
Vicat Softening Point	105 °C	221 °F	ASTM D3418
Flammability Test	300	300	[°F]

Optical Properties	Metric	English	Comments
Haze	<= 1.0 %	<= 1.0 %	ASTM D1003
Yellow Index	<= 1.0 %	<= 1.0 %	ASTM D1925
Transmission, Visible	92 %	92 %	ASTM D1003

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