

Ensinger TECACRYL®

Acrylic

Ensinger Inc.

Message:

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.

Because it is tough, more transparent than glass and twice as light, TECACRYL® is ideal for a wide variety of commercial and industrial applications.

General Information			
Features	Durable		
	Good Colorability		
	Good Flow		
	Good Toughness		
	Good Weather Resistance		
	High Clarity		
	High Hardness		
	High Heat Resistance		
	High Strength		
Uses	Consumer Applications		
	Industrial Applications		
Appearance	Clear/Transparent		
Forms	Shapes		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.56	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	94		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	3240	MPa	ASTM D638
Tensile Strength (Yield)	65.5	MPa	ASTM D638
Tensile Strain (Yield)	4.0 to 6.0	%	ISO 527-2
Flexural Modulus	3380	MPa	ASTM D790
Flexural Strength	117	MPa	ASTM D790
Compressive Strength	117	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	19	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method


Deflection Temperature Under Load (1.8 MPa, Unannealed)	93.9	°C	ASTM D648
Vicat Softening Temperature	105	°C	ASTM D1525
Service Temperature - Long Term	90	°C	
Flammability	149	°C	
Optical	Nominal Value	Unit	Test Method
Transmittance	92.0	%	ASTM D1003
Haze	< 1.0	%	ASTM D1003
Yellowness Index	< 1.0	YI	ASTM D1925
NOTE			
1.	1.0 mm/min		

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WECHAT