

Fabcast Acrylic Product Data

PROPERTIES	VALUE	UNITS	TEST METHOD
MISCELLANEOUS			
Thickness, nominal	0.236		
Specific Gravity	1.19		ASTM D792
Rockwell Hardness	90	M	ASTM D785
MECHANICAL			
Tensile Properties			ASTM D638
Maximum	10,200	PSI	“
Rupture	10,200	PSI	“
Modulus of elasticity	450,000	PSI	“
Flexural Properties (span depth ratio 16, 0.1in/min)			ASTM D790
Maximum	15,000	PSI	“
Modulus of elasticity	450,000	PSI	“
Notched Izod Impact(73°F/23°C)	0.3	ft-lb/in notch	ASTM D256
THERMAL			
Hot forming temperature	290-360	°F	ASTM D648
Deflection temperature under (flexural) load			ASTM D648
3.6 °F/min-264 psi	205	°F	“
Maximum Recommended Continuous Service Temperature	180-200	°F	“
Coefficient of thermal conductivity	1.3	BTU/hr*ft ² *F/in	Cenco-Fitch
Coefficient of linear thermal expansion @ 60°F	3.9	in/in/°F x 10 ⁻⁵	“
Specific heat @ 77°F	0.35	BTU/lb*F	“
OPTICAL			
Refractive Index (ND @ 73°F)	1.49		ASTM D542
Luminous Transmittance (0.125"/3.2 mm.)	92	%	ASTM D1003
Haze (0.125 in./3.2 mm.)	<2	%	ASTM D1003
UV Transmission	<70	%	KOP