

# PLEXICAST ACRYLIC



## Typical Properties\*

Property	Test Method	Units	Values
<b>PHYSICAL</b>			
Specific gravity	ASTM D 792	-	1.19
Water absorption 24 hrs @ 23°C	ADTM D 570	%	0.2
Relative density	ISO 1183	-	1.19
Vicat softening point	ASTM 1525	°C	Min110
<b>MECHANICAL</b>			
Tensile strength	ASTM D 638	MPa	71
Elongation at break	ASTM D 638	%	4
Flexural strength	ASTM D 790	MPa	98
Flexural modulus	ASTM D 790	MPa	2800
Impact strength	ASTM D 256	J/m	20
Rockwell hardness	ASTM D 785	M scale	104
<b>OPTICAL</b>			
Refractive index	ASTM D 542	-	1.49
Haze	ASTM D 1003	%	0.5
Light transmission	ASTM D 1003	%	93
<b>THERMAL</b>			
Heat deflection	ASTM D 648	°C	105
Flammability	ASTM D 635	mm/min	30
Linear expansion coefficient	ASTM E 8831	mm/mm/°C	5.5x10 <sup>-5</sup>

\*Typical properties are not intended for specification purposes.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.