

## Acrylic

### DESCRIPTION:

Acrylic provides a good balance of strength, weatherability, and clarity. Available as a clear compound, that can be tinted, frosted or diffused to specification.

PROPERTY	TYPICAL VALUE	UNITS	ASTM METHOD
<b>PHYSICAL</b>			
Rockwell Hardness	91	M scale	D-785
Specific Gravity	1.19		D-792
Melt Flow Rate (230°C, 3.8 kg)	2.3	g/10 min	D-1238
<b>MECHANICAL</b>			
Flexural Modulus	450,000	psi	D-790
Flexural Strength	15,000	psi	D-790
Tensile Strength	10,200	psi	D-638
Tensile Elongation	6	%	D-638
Notched Izod Impact @ 23°C	0.3	ft-lb/in	D-256
<b>THERMAL</b>			
Heat Deflection Temp 0.125 in @ 264 psi (annealed)	199	° F	D-648
Coefficient of Linear Thermal Expansion	$3.6 \times 10^{-5}$	in/in/°F	D-696 (-22 to 73F)
<b>FLAMMABILITY</b>			
Flame Rating	HB	.059"	UL94
Outdoor Suitability	f1		UL746C
<b>OPTICAL</b>			
Refractive Index (ND @ 73F)	1.49		D-542
Transmittance (.125" / 3.2mm)	92	%	D-1003
Haze (.125" / 3.2mm)	< 2	%	D-1003

The information provided above is based on typical values, and is believed to be reliable. No warranty is given as to the suitability of the product for a particular application. Determination of the suitability of this product for any use is solely the responsibility of the user.