

# MX Acrylic



## Typical Properties\*

Property	Test Method	Units	Values
<b>OPTICAL</b>			
Specific gravity	ASTM D 792	-	1.18
Optical refractive index	ASTM D 542	-	1.49
Haze	ASTM D 542	%	2.0
Light transmission			
0.100" – 0.197"	ASTM D 1003	%	92
0.220" – 0.472"	ASTM 1003	%	90
<b>MECHANICAL</b>			
Tensile strength	ASTM D 638	psi	9,600
Elongation at rupture	ASTM D 638	%	4.5
Modulus of elasticity	ASTM D 798	psi	425,000
Impact strength	ASTM D 256	ft-lb/in	0.4 – 0.5
Flexural strength	ASTM D 798	psi	15,000 – 16,000
Rockwell hardness	ASTM D 785	-	M (90 – 100)
Barcol hardness	ASTM D 2583	-	50
<b>THERMAL</b>			
Forming temperature		°F (°C)	284 – 356 (140 – 180)
Heat deflection temperature (264 psi)	ASTM D 648	°F (°C)	196 (91)
Max. recommended service temp	ASTM D 1525	°F (°C)	176 (80)
<b>MISC.</b>			
Water absorption (24 hrs. -23°C – 73°F)	ASTM D 570	%	0.3

\*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.