

MX Acrylic Sheet Product Data

PHYSICAL AND MECHANICAL PROPERTIES

Property	Typical Value*	Test Method
OPTICAL		
Specific Gravity	1.18	ASTM D 792
Optical Refractive Index	1.49	ASTM D 542
Haze (%)	2.0	ASTM D 542
Light Transmission (%)		
0.100" – 0.197"	92	ASTM 1003
0.220" – 0.472"	90	ASTM 1003

MECHANICAL

Tensile Strength (psi)	9600	ASTM D 638
Elongation at Rupture (%)	4.5	ASTM D 638
Modulus of Elasticity (psi)	425,000	ASTM D 798
Impact Strength (ft lb/in)	0.4 – 0.5	ASTM 256
Flexural Strength (psi)	15000 – 16000	ASTM D 798
Rockwell Hardness	M (90 – 100)	ASTM 785
Barcol Hardness	50	ASTM 2583

THERMAL

Forming Temperature	(°C)	140 – 180	
	(°F)	284 – 356	
Deflection Temperature			
Under Load (264 psi)	(°C)	91	ASTM D 648
	(°F)	196	ASTM D 648
Maximum Recommended			
Continuous Service Temp	(°C)	80	ASTM 1525
	(°F)	176	ASTM 1525

MISCELLANEOUS

Water absorption (24 hrs. -23°C -73°F) (%)	.3%	ASTM 570
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*All values referred to 3.0 mm (0.118") acrylic sheet. These values are typical and should not be taken as specifications.



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