

Acrylic Mirror Sheet Properties

	ASTM Test Method	Units	Values
<b>PHYSICAL PROPERTIES</b>			
Specific Gravity	D792	--	1.2
Optical Refractive Index	D542A	--	1.59
Light Transmission [0.125"(3.2mm) Thickness,Clear]	D1003	%	86
Haze [0.125"(3.2mm) Thickness, Clear]	D1003	%	1.0
Water absorption(24hrs 73F(23°C)	D570	%	0.15
Yellowness Index [3 years (U.V coated sheet)]	D1925	--	2.0
Rockwell hardness	D785	--	R 115
<b>MECHANICAL</b>			
Tensile strength - Maximum	D638	psi(Kgf/cm <sup>2</sup> )	9,500(670)
Tensile Elongation - Maximum	D636	%	100
Modulus of Elasticity	D790	psi(Kgf/cm <sup>2</sup> )	332,000(23,350)
Flexural Strength - Maximum	D790	psi(Kgf/cm <sup>2</sup> )	14,000(985)
Izod Impact Strength[0.125 (3.2mm) thickness,Notched]	D256A	Ft lbs/inch(Kgf/cm <sup>2</sup> )	16(90)
<b>THERMAL</b>			
Heat Deflection Temperature - 264psi(18.6kg/cm <sup>2</sup> )	D648	°F(°C)	270(132)
- 66 psi(4.6kg/cm <sup>2</sup> )		°F(°C)	280(136)
Coefficient of Thermal Expansion	D696	In/in/°F cm/cm/°C	3.75X10-5 6X10-5
Brittle Temperature	D746	°F(°C)	-211(-100)
<b>Flammability</b>			
Ignition Temperature	D1925		
--Flash		°F ( °C)	873(467)
--Self		°F ( °C)	1,076(580)