



Acrylic Mirror

Bay Plastics Datasheet

Physical Properties	ASTM Test Method	Units	Values
Specific Gravity	D792	-	1.19
Optical Reflective Index	D542	-	1.46
Light Transmission	D1003	-	-
Total		%	92
Haze		%	2
Sounds Transmission (125" thickness)	E90-70 E413	db	27
Water Absorption	D570	% By Weight	0.4
Shrinkage	D702	% Shrinkage	<5%

Mechanical Properties	ASTM Test Method	Units	Values
Tensile Strength - Maximum	D638	psi	10,100
Tensile Elongation - Maximum	-	%	5.1
Modulus of Elasticity	-	psi	431,000
Flexural Strength - Maximum	D790	psi	14,600
Izod Moulded Notch	D256-56	Ft lbs/inch of notch	0.4
1/2" x2 1/2" x 1/4" bar (at73°F)	-	-	-
Izod Milled Notch	-	Ft lbs/inch of notch	-
1/2" x2 1/2" x 1/4" bar (at73°F)	-	-	-
Tensile Impact Strength	D1822	Ft lb/in ²	20
Abrasion Resistance	D1044	-	-
0 cycles	-	Haze %	2
10 cycles	-	Haze %	15
50 cycles	-	Haze %	30
100 cycles	-	Haze %	30
Rockwell Hardness	D785	-	M-93

Chemical Properties	ASTM Test Method	Units	Values
Resistance to stress – Critical crazing stress to:	ARTC modification of MIL-P-6997	-	-
Isopropyl Alcohol	-	Psi	900
Lacquer Thinner	-	Psi	500
Toluene	-	Psi	1,300
Solvesso 100	-	psi	1,600

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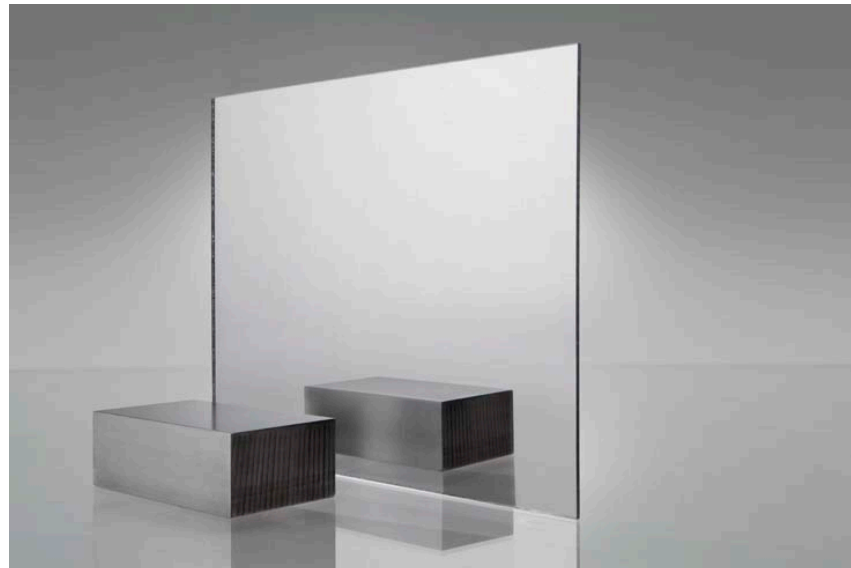
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Thermal Properties	ASTM Test Method	Units	Values
Maximum	-	°F	170-190
Recommended Continuous Service Temperature	-	-	-
Softening Temperature	-	°F	210-220
Melting Temperature	-	°F	300-315
Deflection Temp. Load, Unannealed	D648	-	-
3.6°F/minute, 264psi	-	°F	190
3.6°F/minute, 66 psi	-	°F	205
Coefficient of Thermal Expansion	D696	Ins/in/°Fx10 ⁻⁵	
-40°F	-	-	2.7
-20°F	-	-	2.9
0°F	-	-	3.1
20°F	-	-	3.2
40°F	-	-	3.4
Thermal Conductivity	C177	BTU (HR)(Ft ²)(°F)/in	0.9
Flammability	D635	Ins/minute	-
(Burning Rate)	-	.060"	1.019
	-	.236"	0.318
Smoke Density Rating	D2843-77	% .236"	0.36
Self-Ignition Temperature	D1929	°F .236"	833
Flame Spread Index	-	0.375"	110
Smoke Value	E84-86	.236"	115



The data are typical values and are not intended to represent specifications. Their aim is to guide the user towards a material choice. All statements, technical information and recommendations in this product datasheet are presented in good faith, based upon tests believed to be reliable and practical experience. However, Bay Plastics Ltd cannot guarantee accuracy or completeness of this information, and it is the buyer's responsibility to determine the suitability of products in any given application. Therefore no liability whatsoever shall attach to Bay Plastics Ltd for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of application, processing or use of the aforementioned information products by the buyer.

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