



Polycarbonate Mirror Sheet Datasheet

Bay Plastics Datasheet

Mechanical Properties	Test Method	Units	Value
Tensile strength - ultimate	D 638	psi	9,500
Yield	D 638	psi	8,400
Elongation	D 638	%	100
Tensile modulus	D 638	psi	340,000
Flexural strength	D 790	psi	13,500
Compressive strength	D 695	psi	12,500
Shear strength	D 732	psi	5,800

Thermal Properties	ASTM Test Method	Units	Value
Heat deflection temperature – under load			
264 psi	D 648	°F	275
66 psi			285
Coefficient of thermal expansion	D 696	In/in/°F	3.8 x 10
Coefficient of thermal conductivity	D 177	BTU/(HR)Sq.Ft.)(°F/in.)	1.35

Chemical Properties	Test Method	Units
Resistance to stress – critical crazing stress to:	ARTC modification of MIL-P-6997	
Isopropyl Alcohol	psi	900
Lacquer Thinner	psi	500
Toluene	psi	1300
Solvesso 100	psi	1600

Miscellaneous Properties	ASTM Test Method	Units	Value
Flammability	D 635	Cm/min	32 secs / 0.7"
Equilibrium at 73°F	D 570	%	0.35
Equilibrium at 212°F	D 570	%	0.58