

.375" POLYCARBONATE SOLID TECHNICAL DATA SHEET

US PLAST PC SHEET

GENERAL PROPERTIES

Method

Unit

Value

Specific gravity	ASTM D 792		1,2
Water absorption saturation water at 73 °F (24h, 1/8-in thk)	ASTM D 510	%	0,12
Forming temperature		°F	356-410

MECHANICAL PROPERTIES

Tensile modulus	ASTM D 638	psi	340838
Yield stress	ASTM D 638	psi	9427
Yield strain	ASTM D 638	%	6,3
Nominal strain at break	ASTM D 638	%	>50
Stress at break	ASTM D 638	psi	10152
Strain at break	ASTM D 638	%	120
Flexural modulus	ASTM D 790	psi	340838
Flexural strength	ASTM D 790	psi	13923
Impact strength, Izod notched	ASTM D 256	ftlb/in	14
Hardness, Rockwell M	ASTM 785		62-70

THERMAL PROPERTIES

Vicat softening temperature	ASTM D 1525	°F	298
Thermal conductivity 73 °F	ASTM C 177	Btu-in/hr-ft ² -F	1,35
Coefficient of linear thermal expansion, parallel 73 °F to 131 °F	ASTM D 696	E-5/ in/in-C	6,5

OPTICAL PROPERTIES

Light Transmission	ASTM D 1003	%	82
Haze	ASTM-D1003	%	0,5

ELECTRICAL PROPERTIES

Volume resistivity (At 73F,50% RH)	ASTM D 257	Ohm.cm	1E+14
Dielectric strength (short time, 1/8-in thk)	ASTM D 149	V/mil	380-400
Surface resistivity	ASTM D 257	Ohm	1E+16
Dissipation Factor - at 1kHz	ASTM D 150		0,0021

FIRE RESISTANCE

Fire Behaviour	UL 94		V0
----------------	-------	--	----

