

Technical Data Sheet

Polycarbonate Solid Sheet



GENERAL

General Properties	Method	Units	Value
Density	ISO 1183	g/cm ³	1.2
Light transmission (Depending on thickness)	ASTM D 1003	%	81 - 90
Refractive index	ISO 489		1,585

MECHANICAL

General Properties	Method	Units	Value
Tensile Strength at yield	ISO 527-2	MPa	60
Tensile Modulus	ISO 527-2	MPa	2300
Elongation at break	ISO 527-2	%	>100
Elongation at yield		%	6
Flexural Modulus	ISO 178	MPa	2330
Charpy Un-notched	ISO 179	kJ/m2	Not Break
Izod Impact notched	ISO 180a	kJ/m2	>65

THERMAL

General Properties	Method	Units	Value
Temp of deflection (HDT) Under load of 1.8MPa	ISO 75-1	°C	130
Vicat softening temp (50°C/h 50N)	ISO 306	°C	144
Thermal conductivity	DIN52612	W/m x °C	0.2
Coefficient of linear thermal expansion 0-50°C	ISO 11359	mm/(m x 1/°C)	0.070
GWFI (Glow-Wire Flammability index)	IEC60695-2	°C	900

ELECTRICAL

General Properties	Method	Units	Value
Volume Resistivity	IES 60093	Ω x cm	3 x 10 ¹⁴
Surface Resistivity, dry	IEC 60093	Ω	6 x 10 ¹⁵
Dissipation Factor 1Mhz	IEC 60250		0.009
Dissipation Factor 100Hz	IEC 60250		0.0006

COLORS

Clear, Opal, Bronze,
Green & Blue

DIMENSIONS

Width: up to 2050mm
Thickness: 1mm to 10mm

TYPE

Options :Single sided UV protection & Both sided UV Protection
Surface Shapes : Compact, Diamond, Embossed

