

POLYCARBONATE UV PROTECTED EXTRUDED

GENERAL			
Density	ISO1183	1.20 (0.04332)	g/cm ³ (lb/in ³)
Water Absorption	ISO62	0.2	%
MECHANICAL			
Tensile Strength	ISO527-2	60 (8702)	MPa (psi)
Elongation at Break	ISO527-2	80	%
Tensile Modulus	ISO527-2	2300 (333575)	MPa (psi)
Flexural Strength	ISO178	90 (13052)	MPa (psi)
Flexural Modulus	ISO178	2300 (333575)	MPa (psi)
Charpy Impact Strength, Notched	ISO179-1	40 (19.02)	kJ/m ² (ft-lb/in ²)
Izod Impact Strength, Notched	ISO180/1A	70 (33)	kJ/m ² (ft-lb/in ²)

THERMAL			
Vicat Softening Temperature, B50, Annealed	ISO306	135 (275)	°C (°F)
Heat Distortion Temperature, 1.8MPa	ISO75	125 (257)	°C (°F)
Linear Thermal Expansion	DIN53752	7	/°K x 10 ⁻⁵
Continuous Service Temperature	-	110 (230)	°C (°F)
Maximum Short Term Temperature	-	120 (248)	°C (°F)
Degradation Temperature	-	> 280 (> 536)	°C (°F)
Relative Temp Index (Tensile Strength)	UL746B	1.5mm	125 °C
Relative Temp Index (Tensile Impact Strength)	UL746B	1.5mm	115 °C
Relative Temp Index (Electrical Strength)	UL746B	1.5mm	125 °C

OPTICAL			
Light Transmission (3mm / 0.118")	DIN5036-3	86	%
Refractive Index	DIN5036-3	1.59	-

ELECTRICAL PROPERTIES				
Dielectric Loss Tangent	x10 ⁻⁴	IEC 60250	100Hz	10
	x10 ⁻⁴		1MHz	90
Volume Resistivity	ohm-m	IEC 60093	-	>1x10 ¹³
Surface Resistivity	ohm	IEC 60093	-	>1x10 ¹⁵
Withstand Voltage	MV/m	IEC 60243-1	short time test	30
Tracking Resistance	-	IEC 60112	-	250

This specification provides typical data to the best of our knowledge at the time of publishing. Due to our inability to control conditions of use and application, we are unable to make any recommendations or suggestions. Dotmar EPP PTY assumes no liability for use of information presented herein.