

## POLYGUARD

### UV PROTECTED EXTRUDED POLYCARBONATE

GENERAL	TEST	VALUE	UNIT
Density	ISO1183	1.20	g/cm <sup>3</sup>
Water Absorption	ISO62	0.2	%
<b>MECHANICAL</b>			
Tensile Strength	ISO527-2	60	MPa
Elongation at Break	ISO527-2	80	%
Tensile Modulus	ISO527-2	2300	MPa
Flexural Strength	ISO178	90	MPa
Flexural Modulus	ISO178	2300	MPa
Charpy Impact Strength, Notched	ISO179-1	40	kJ/m <sup>2</sup>
Izod Impact Strength, Notched	ISO180/1A	70	kJ/m <sup>2</sup>
<b>THERMAL</b>			
Vicat Softening Temperature, B50, Annealed	ISO306	135	°C
Heat Distortion Temperature, 1.8MPa	ISO75	125	°C
Linear Thermal Expansion	DIN53752	7	/°K x 10 <sup>-5</sup>
Continuous Service Temperature	-	110	°C
Maximum Short Term Temperature	-	120	°C
Degradation Temperature	-	> 280	°C
<b>OPTICAL</b>			
Light Transmission (3mm / 0.118" )	DIN5036-3	88	%
Refractive Index	DIN5036-3	1.59	-