

## POLYCORBÁNATE SOLID SHEET

### POLICAM PC SHEET

#### GENERAL PROPERTIES

	<u>Method</u>	<u>Unit</u>	<u>Value</u>
Density	ISO 1183-1	gr/cm <sup>3</sup>	1,2
Water absorption saturation water at 23 °C	ISO 62	%	0.30
Water absorption equilibrium 23 °C, 50% relative humidity	ISO 62	%	0.12
Forming temperature		°C	180-210

#### MECHANICAL PROPERTIES

Tensile modulus	ISO 527-1,-2	MPa	2350
Yield stress	ISO 527-1,-2	MPa	65
Yield strain	ISO 527-1,-2	%	6.3
Nominal strain at break	ISO 527-1,-2	%	> 50
Stress at break	ISO 527-1,-2	MPa	70
Strain at break	ISO 527-1,-2	%	120
Charpy impact strength	ISO 179-1	kJ/m <sup>2</sup>	No Break

#### THERMAL PROPERTIES

Vicat softening temperature	ISO 306	°C	148
Thermal conductivity 23 °C	ISO 8302	W/(m·K)	0,2
Coefficient of linear thermal expansion, parallel 23 to 55 °C	ISO 11359-1	mm/m°C	0,065
Temperature of deflection under load 1.80 MPa	ISO 75-1,-2	°C	128
Temperature of deflection under load 0.45 MPa	ISO 75-1,-2	°C	140

#### OPTICAL PROPERTIES

Light Transmission (1mm - 15mm)	ISO13468	%	88 - 78
Colour			Transparent

#### ELECTRICAL PROPERTIES

Volume resistivity	IEC 60093	Ohm.cm	1E14
Electric strength	IEC 60243-1	kV/mm	34
Surface resistivity	IEC 60093	Ohm	1E16
Dissipation Factor - 100 Hz	IEC 60250	10 <sup>-4</sup>	5