

# POLYCARBONATE SHEETS (PCS)

## SPECIFICATIONS

Typical Properties	Units	Value	Test Method
<b>GENERAL</b>			
Density	gm/cc	1.2	ASTM D 792
Flammability	mm	1.48	UL 94
Oxygen Index	%	28	ASTM D 2863
Water Absorption	%	< 0.45	ASTM D 570
<b>MECHANICAL</b>			
Tensile Strength at Yield	Mpa	60	ASTM D 638
Tensile Strength at Break	Mpa	70	ASTM D 638
Elongation at Yield	%	6	ASTM D 638
Elongation at Break	%	125	ASTM D 638
Tensile Modulus	Mpa	2400	ASTM D 638
Flexural Strength	Mpa	100	ASTM D 790
Taber Abrasion	mg/100 cycles	10	ASTM D 1044
Charpy Impact Notched	kJ/m <sup>2</sup>	40	ASTM D 256
Izod Impact Notched	kJ/m <sup>2</sup>	75	ASTM D 256A
Impact Resistance	joules	72	ASTM F 736
<b>THERMAL</b>			
Vicat Softening Point	°C	148	ASTM D 1525
Heat Deflection Temperature	°C	132	ASTM D 648
Thermal Index – Electrical Properties	°C	100	UL 746B
Thermal Index – Mechanical Properties	°C	120	UL 746B
Coefficient of Linear Thermal Expansion	m/m°C	70x10 <sup>-5</sup>	ASTM D 696
Shrinkage	%	< 3	BSEN ISO
<b>ELECTRICAL/ OPTICAL</b>			
Volume Resistivity	Ohm.cm	> 10	ASTM D 257
Dielectric Strength	kv/mm	30	ASTM D 149
Dissipation Factor		0.01	ASTM D 150
Light Transmission	%	> 85	ASTM D 1003
Haze	%	< 1	ASTM D 1003
Refractive Index		1.59	ASTM D 542

### SEDE CENTRAL

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### ALMACENES LOGÍSTICOS

- Beniparrelli – CP 46469  
Valencia – SPAIN
- Puerto de Rotterdam – CP 3088he  
Rotterdam – Países Bajos

- Roundabout Street 6  
Jebel Ali Free Zone Area  
CP 17041 – Emiratos Árabes Unidos  
(UAE) Dubai