

# POLYCASA® PC

Polycarbonate

Polycasa

## Message:

Polycasa PC is the brand name for extruded Polycarbonate sheet from Polycasa in accordance with ISO 11963/ DIN 16801.  
The Polycasa PC programme offers solutions to both indoor and outdoor applications and for outdoor use we recommend Polycasa PC UVP, a material with 10 years weathering warranty.  
As well as clear, standard opals and white, a variety of colours and designs are also available as a result of the extrusion process we can offer.

### CHARACTERISTICS

Excellent optical properties and a brilliant surface.  
Easy to fabricate and shows exceptional performance at both low and high temperatures (from -40°C to +130°C).  
Excellent mechanical, thermal and electrical properties.  
Virtually unbreakable in normal use.

### APPLICATIONS

Moulded containers, bowls and tubs.  
Machine safety guards, vending machine fascias.  
Vehicle and boat construction, aircraft (only for internal use).  
Safety glazing (sports centres, penal establishments and other buildings).  
Street and traffic signs.  
Office machinery (covers, sight panels).  
Industrial construction.  
Partition walls.  
Advertising panels.

General Information	
Features	Durable
	Good Electrical Properties
	Good Toughness
	Opticals
	Outstanding Surface Finish
	Scratch Resistant
Uses	Aircraft Interiors
	Automotive Applications
	Building Materials
	Construction Applications
	Containers
	Industrial Applications
	Marine Applications
	Protective Coverings
	Safety Equipment
	Safety Guards
	Wall Panels
Agency Ratings	DIN 4102/B1 2
	DIN 4102/B2

Appearance	Brown Clear/Transparent Colors Available White		
Forms	Sheet		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm <sup>3</sup>	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2
Tensile Stress	60.0	MPa	ISO 527-2
Tensile Strain (Break)	80	%	ISO 527-2
Flexural Stress	> 95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	10	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	145	°C	ISO 306/A50
CLTE - Flow	6.5E-5	cm/cm/°C	DIN 53328
Specific Heat	1170	J/kg/°C	
Thermal Conductivity	0.20	W/m/K	DIN 52612
Heat Deflection Temperature	135	°C	ISO 75-2
Maximum Service Temperature			
continuous use	115	°C	
short term use	130	°C	
Refractive Index - T3	1.5850		Internal Method
Degradation Temperature	> 280	°C	
Sheet Temperature - Forming	180 to 210	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	DIN 53482
Volume Resistivity	1.0E+15	ohms · cm	DIN 53482
Electric Strength	> 30	kV/mm	DIN 53481
Dielectric Constant (50 Hz)	3.00		DIN 53483
Dissipation Factor (50 Hz)	8.0E-4		DIN 53483
Optical	Nominal Value	Unit	Test Method
Transmittance	86.0	%	DIN 5036

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