

# POLYCASA® SPC

Polycarbonate

Polycasa

## Message:

Polycasa® SPC is the brand name for extruded multi-wall polycarbonate sheets. It offers solutions for both indoor and outdoor applications, and is a lightweight sheet which is easy to transport, handle and install. SPC sheets offer excellent aesthetic and optical properties. Standard colours are clear, opal and bronze.

### CHARACTERISTICS

- High impact resistance.
- Weather resistant.
- High heat and sound insulation.
- Long life span.
- Excellent light transmission up to 86% (6 mm).
- Large dimensions.
- Excellent resistance to chemicals.
- Transparent.
- UV protection: co-extruded 1 side or 2 side.
- 10 year warranty.
- Excellent fire safety - EN 13501 standard (Euroclass).
- Temperature resistant: between -40°C +130°C.
- High resistance to mechanical loading.
- Light-weight.
- Easy to install using ordinary tools.
- Superb thermal insulation - saves energy.
- Computer checked colours and material properties.

### APPLICATIONS

- Roofing and glazing.
- Cladding.
- Skylights.
- Shelters.
- Vaults.
- Partitions.
- Suspended ceilings.
- Swimming pool enclosures.
- Conservatories.
- Boxes.
- Advertising panels.
- Winter gardens.
- Protective covers for fragile items.
- Pergolas.

General Information	
Features	Durable
	Good Chemical Resistance
	Good UV Resistance
	Good Weather Resistance
	High Heat Resistance
	High Impact Resistance
	High Light Transmission
	Low Temperature Resistant
	Opticals
	Sound Damping

## Thermally Insulating

Uses	Building Materials		
	Outdoor Applications		
	Protective Coverings		
	Sheet		
	Wall Panels		
	Windows & Doors		
Agency Ratings	EN 13501		
Appearance	Brown		
	Clear/Transparent		
Forms	Sheet		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm³	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/m²	ISO 179
Charpy Unnotched Impact Strength	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	145	°C	ISO 306/B50
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	1.5850		ISO 489
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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