



Product Guide

SPC IS A RANGE OF POLYCARBONATE SHEETS — AS CLEAR AS GLASS BUT STRONGER AND MORE RESISTANT TO IMPACT.

In fact, SPC is virtually unbreakable. Light, strong, weatherproof, and insulating against heat and cold, this material has a long working life and carries a 10 year warranty against yellowing. So, it's no wonder SPC is seen as an attractive sheet for use as roofing, cladding and glazing in construction, agriculture, industry and DIY.



CHARACTERISTICS

- High impact resistance.
- Weather resistant.
- High heat and sound insulation.
- Long life span.
- Excellent light transmission up to 88% (10 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.
- BBA Certificate No 04/4135 (16, 25, 32 and 35 mm).

APPLICATIONS

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

PRODUCT IDENTIFICATION

Polycasa SPC is the brand name for extruded multiwall polycarbonate sheets.

It offers solutions to 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 with a range of clear and translucent colours.

TECHNICAL INFORMATION

		SPC 4	SPC 6	SPC 8	SPC 8/4W	SPC 10	SPC 10/4W	SPC 16	SPC 16/5W
Design of the flutes									
	Thickness	4	6	8	8	10	10	16	16
Weight	mm								
	tolerance								
Weight	g/m ²	900	1300	1500	1500	1700	1700	2700	2500
	tolerance	≥ 95% of nominal							
Standard tolerance	width (mm)	-2 / +6 mm							
	tolerance								
	width (mm)	L ≤ 3000mm from 0 to +12mm L ≥ 3000 mm from 0 to 0,4% of L							
	tolerance								

		SPC 16/7W	SPC 16D	SPC 20	SPC 25D	SPC 32D	SPC 32/7W	SPC 35/7W	
Design of the flutes									
	Thickness	16	16	20	25	32	32	35	
Weight	mm								
	tolerance	+/- 0.5							
Weight	g/m ²	2650	2500	3200	3300	3700	3600	3800	
	tolerance	≥ 95% of nominal							
Standard tolerance	width (mm)	-2 / +6 mm							
	tolerance								
	width (mm)	L ≤ 3000mm from 0 to +12mm L ≥ 3000 mm from 0 to 0,4% of L							
	tolerance								

GENERAL			
Property	Method	Units	SPC
Density	ISO 1183	g/cm ³	1.2
Rockwell Hardness	D-785	M-scale	-
OPTICAL			
Property	Method	Units	SPC
Light Transmission	DIN 5036 T3	%	86
Refractive Index	ISO 489	n ^o 20	1.585
MECHANICAL			
Property	Method	Units	SPC
Flexural Modulus	ISO 489	MPa	-
Flexural Strength	ISO 178	MPa	>95
Tensile Modulus	ISO 527	MPa	2200
Tensile Strength	ISO 527	MPa	60
Elongation	ISO 527	%	80
THERMAL			
Property	Method	Units	SPC
Vicat Temp (VST/A 50)	ISO 306	°C	145
Heat Deflection Temp. (AVB)	ISO R75	°C	135
Specific Heat Capacity	-	J/gK	1.17
Coefficient of linear thermal expansion	DIN 53328	K ⁻¹ x10 ⁻⁵	6.5
Thermal Conductivity	DIN 52612	W/mK	0.2
Degradation temperature		°C	>280
Max. service temp. continuous use		°C	115
Max. service temp. short term use		°C	130
Sheet forming temp. range		°C	180-210
IMPACT STRENGTHS			
Property	Method	Units	SPC
Izod (notched)	ISO 180	KJ/m ²	-
Charpy (notched)	ISO 179	KJ/m ²	>10
Charpy (unnotched)	ISO 179	KJ/m ²	NB
ELECTRICAL			
Property	Method	Units	SPC
Dielectric constant 50 HZ	DIN 53483		3.0
Volume Resistivity	DIN 53482	Ω.cm	10 ¹⁵
Surface Resistivity	DIN 53482	Ω	>10 ¹⁵
Dielectric Strength	DIN 53481	kV/mm	>30
Dissipation Factor (50 HZ)	DIN 53483		8x10/4w

For further information on the wide range of Polycasa products please contact us as follows;

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Polycasa offers an extensive range of plastic sheets to distribution and industrial partners, with an industry leading selection of polymers, thicknesses, sizes, colours, patterns, and coatings.



Brands from Polycasa:



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