

## **Product Guide**



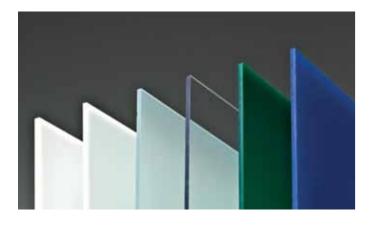
www.polycasa.com

### **POLYCASA PETG**

# POLYCASA PETG IS A TOUGH, CLEAR MATERIAL THAT OFFERS MANY SOLUTIONS FOR BOTH INDOOR AND OUTDOOR APPLICATIONS.

This extruded sheet offers possibilities for designers and fabricators, from simple shapes to the most complex designs (where it doesn't lose any of its toughness). PETG is easy to mould, and does not require predrying before use (in contrast to other common materials), which reduces processing costs and time required.

Plus, the high impact performance allows use of a thinner gauge sheet than with other common materials — another way of lowering material costs.



#### **PRODUCT IDENTIFICATION**

**Polycasa PETG** is the brand name for extruded Polyethyleneterephthalate Glycol (PETG) copolyester sheet from **Polycasa**.

As a result of the extrusion process, **Polycasa** can offer, in addition to clear and opal versions, a variety of colours and designs to suit a wide range of requirements.

#### CHARACTERISTICS

- Good optical properties.
- Brilliant surface.
- Easy to fabricate.
- Its biggest advantage compared to other plastics is in vacuum forming.
- Exceptional low temperature performance.
- Very good chemical resistance.
- Very high impact properties.
- Low water absorption.
- Easy to recycle.

**Polycasa PETG** meets all current food contact legislation and can be used in contact with unwrapped food.

Our UV Grade is not intended for food contact and is therefore not covered by this warranty.

#### APPLICATIONS

- Bus shelters.
- Poster glazing.
- Machine guards.
- Medical appliance packaging.
- Displays & signs for external use.
- Refrigerators and cold storeroom equipment.
- Bicycle safety helmets.
- Food containers.
- Lenticular lenses.
- Graphic arts.
- Lighting controllers for hazardous areas.
- Motorcycle windshields.

#### PRODUCT RANGE

- Available with UVP or anti-reflex features.
- Standard sheet thickness range from 0.8 to 10 mm. (12 and 15 mm are also available but subject to special order.)
- Available in standard clear colour, and a range of different opal shades.
- Patterns; Prismatic, Haircell and Impala patterns and also colours are available on request.
- A range of special colours with or without UV protection can be produced, subject to special conditions.
- Standard sheet dimensions are from 0.8 to 1.5 mm, 2050 x 1250 (width) mm; from 1.5 to maximum thickness 3050 x 2050 mm or 2050 mm x 1250.
- Overlength and special sizes on request.

Please contact your local customer service centre for a complete product overview.

For details see back of brochure.

#### **TECHNICAL INFORMATION**

Method	Units	POLYCASA PETG + POLYCASA PETG UV	
D1505	g/cm <sup>3</sup>	1.27	
D-785	Rscale	105	
Method	Units	POLYCASA PETG + POLYCASA PETG U	
5036	%	88	
53491		1.57	
D1003	%	<1	
Method	Units	POLYCASA PETG + POLYCASA PETG U	
53452	MPa	2075	
53452	MPa	70	
53455	MPa	2200	
53455	MPa	50	
53455	%	54	
Method	Units	POLYCASA PETG + POLYCASA PETG L	
53460	°C	82	
53461	°C	72/68	
D-2766	J/gK	1.1	
53752	K-1x10-5	6.8	
52612	W/mK	0.20	
	°C	>280	
	°C	70	
	°C	120-160	
Method	Units	POLYCASA PETG + POLYCASA PETG L	
ISO 180	kJ/m²	11.5	
53453	kJ/m²	10	
53453	kJ/m2	NB	
NA -1 -1	Units	POLYCASA PETG +	
Method		POLYCASA PETG L	
IEC 250		2.6	
	Ω.cm	POLYCASA PETG L     2.6     >10 <sup>15</sup>	
IEC 250	Ω.cm	2.6	
	InternationD1505D-785D-785MethodS036S3491D1003D1003S3491D1003S3451S3452S3455S3455S3455S3455S3455S3455S3455S3455S3455S3455S3455S3455S3455S3455S3455S3455S3451D-2766S3752S2613 <td< td=""><td>D1505 g/cm³   D-785 Rscale   Method Units   5036 %   53491 -   D1003 %   D1003 %   Method Units   Method Units   S3491 -   D1003 %   Method Units   Method Units   S3452 MPa   S3455 MPa   S3455 MPa   S3455 MPa   S3455 %   Method Units   S3455 %   S3455 %   Method Units   D-2766 J/gK   S3451 °C   D-2766 J/gK   S3752 K<sup>1</sup>x10<sup>5</sup>   S2612 W/mK   C °C   Method °C   Method °C   S3453 %</td></td<>	D1505 g/cm³   D-785 Rscale   Method Units   5036 %   53491 -   D1003 %   D1003 %   Method Units   Method Units   S3491 -   D1003 %   Method Units   Method Units   S3452 MPa   S3455 MPa   S3455 MPa   S3455 MPa   S3455 %   Method Units   S3455 %   S3455 %   Method Units   D-2766 J/gK   S3451 °C   D-2766 J/gK   S3752 K <sup>1</sup> x10 <sup>5</sup> S2612 W/mK   C °C   Method °C   Method °C   S3453 %	

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

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**France, Italy, Greece and Cyprus T:** 00 33 385 73 68 19

**Germany, Austria, Switzerland T:** 00 49 61 31 63 11 82

**Spain and Portugal T:** 00 34 93 565 12 30

**Central and Eastern Europe T:** 00 421 41 707 14 20 – 24

Benelux, Scandinavia and all other countries T: 00 32 14 57 67 11

#### HEAD OFFICE

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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:**

<sup>⊗</sup> CAST										
🍈 ХТ	🏶 XT			Ø AKRYLC	DN 🌼 I	ACRYL	🏶 PS	🏶 HIPS	SAN	🏶 ABS
🌼 TPU	<b>◎ PC</b>	<b>⊚SPC</b>	🌼 PETG		ULAR					

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