



# XT



### PRODUCT IDENTIFICATION

XT is one of the trade names of **Polycasa** for extruded acrylic (polymethylmethacrylate PMMA) in the form of large dimensional sheets.

Offering solutions for both indoor and outdoor applications, **Polycasa XT** is available in clear and opal white standard, and in a wide range of colours and designs.

Sheets are produced and tested according to DIN EN ISO 7823-2.



POLYCASA XT sheets are easy to cut with a CO<sub>2</sub>- laser. Brilliant edges of cut can be achieved depending on type, thickness and surface treatment. The laser operating efficiency should amount to 300 – 1000 W. Neodym-YAG lasers permit excellent engraving of coloured POLYCASA XT sheets. Inert gas rinsing and extraction of monomer vapour must be ensured.

### CHARACTERISTICS

- Good optical properties – brilliant transparency showing excellent colour.
- High-quality surfaces – very good weathering and ageing resistance.
- Can be used in contact with foodstuffs – meets all current European food control legislation.
- Does not contain any toxic materials or heavy metals which may cause environmental damage or health risks.
- Easy to recycle.
- High impact grades **Polycasa XT610**, **XT620** and **XT630** have outstanding mechanical properties and excellent impact strength.
- Easy to fabricate.

### APPLICATIONS

- Construction components: light domes, partition walls, glazing, roofing, caravan windows.
- Lighting: prismatic control lenses, opal diffusers.
- Engineering components: housings, machine covers.
- Advertising and decoration: letters, shop fittings, panels, Point Of Purchase displays.
- Other applications: containers, lettering templates, solariums UVT (UV-transmitting grade).
- Sound barrier walls.



COLOUR	FEATURES	LT	SIZE mm	SHEETS PER PALLET												
				THICKNESS in mm												
XT				1,5	2	2,5	3	4	5	6	8	10	12	15	20	25
Clear		92%	3050 x 2050	80	60	50	40	30	25	20	15	10	10	8	6	5
			2050 x 1250	•	150	•	100	70	60	50	•	•				
Clear	Anti-reflex (1 side)	90%	3050 x 2050		60		40	30	•							
Clear	Fly Safe	92%	3050 x 1900				•	•	•	•	•	•				
White 024	Opal	82%	3050 x 2050		60	50	40	30	•	•	•	•				
			2050 x 1250				•	•								
White 034	Opal	49%	3050 x 2050		60		40	30								
			2050 x 1250				•	•								
White 050	Opal	37%	3050 x 2050		60		40	30								
			2050 x 1250				•	•								
White 055	Opal	35%	3050 x 2050		60		40	30	25							
White 066	Opal	30%	3050 x 2050		60	•	40	30	25	20	•	•				
			2050 x 1250				•	•	•	•						
White 003	Opaque	7%	3050 x 2050		•		40	30	25	•	•	•				
Glossy Black 910	Opaque	<1%	3050 x 2050				40	30	25	•	•	•				

**XT special conditions:** Other thicknesses, colours and patterns can be produced to order, but are subject to special conditions, such as: minimum order quantities, production lead times and price surcharge.

• = Available in our product offer, but subject to special conditions.  
 LT = Light transmission figures apply to 3 mm sheet thickness only.

Please contact us for all your special requirements.



COLOUR	FEATURES	LT	SIZE mm	SHEETS PER PALLET												
				THICKNESS in mm												
XT				1,5	2	2,5	3	4	5	6	8	10	12	15	20	25
Brown 145		50%	3050 x 2050		•	•	40									
Brown 146			3050 x 2050					30								
Brown 147			3050 x 2050						25							
Brown 148			3050 x 2050							20						
Brown 149			3050 x 2050								15					
Brown 150			3050 x 2050									10				
Silicate Green 102		90%	3050 x 2050		•											
Silicate Green 103			3050 x 2050				40									
Silicate Green 104			3050 x 2050					30								
Silicate Green 105			3050 x 2050						25							
Silicate Green 106			3050 x 2050							20						
Silicate Green 108			3050 x 2050								15					
Silicate Green 110			3050 x 2050									10				
Silicate Green 112			3050 x 2050										•			
Silicate Green 115			3050 x 2050											•		
Silicate Green 120			3050 x 2050												•	

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• = Available in our product offer, but subject to special conditions.  
 LT = light transmission. LT for Brown and Silicate Green sheets is constant over the full range of thicknesses from 2 to 20 mm (thickness varies with product)  
 Please contact us for all your special requirements.



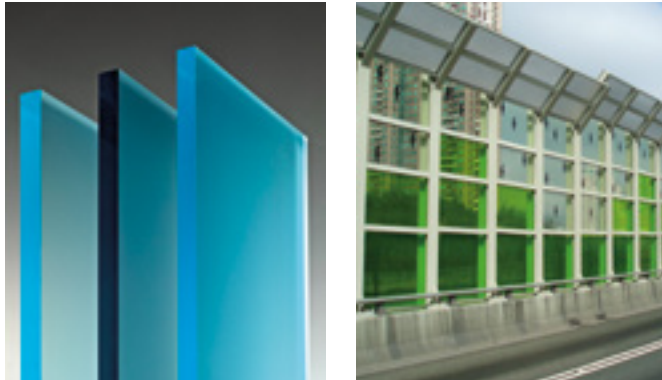
COLOUR	FEATURES	LT	SIZE mm	SHEETS PER PALLET											
				THICKNESS in mm											
XT HIGH IMPACT				1,5	2	2,5	3	4	5	6	8	10	12	15	20
Clear	XT 610	90%	3050 x 2050		60		40	30	25	20					
Clear	XT 620	91%	3050 x 2050		60		40	30	25	•					
Clear	XT 630	91%	3050 x 2050		60		40	30	25	•					
White 066	XT 610 Opal	30%	3050 x 2050		•		40	30	•	•					
XT UV TRANSMITTED				1,5	2	2,5	3	4	5	6	8	10	12	15	20
Clear	UVT	92%	3050 x 2050		60		40	•	•	•	•	•			
XT SOFT TONE				1,5	2	2,5	3	4	5	6	8	10	12	15	20
Clear	Double-sided ST	88%	3050 x 2050			•	40	30	25	20	15	•			
White 024	Double-sided ST	74%	3050 x 2050			•	40	30	25	20	•	•			
Blue 019	Double-sided ST	70%	3050 x 2050			•	•	30	•	•	•	•			
Green 101	Double-sided ST	88%	3050 x 2050			•	•	30	•	•	•	•			
<b>XT Soft Tone Single-sided ST</b> (subject to special conditions): Clear, White 024, Blue 019 and Green 101.															
<b>XT special conditions:</b> Other thicknesses, colours and patterns can be produced to order, but are subject to special conditions, such as: minimum order quantities, production lead times and price surcharge.															

Products having a number of sheets per pallet in the table are available on stock.

- = Available in our product offer, but subject to special conditions.
- LT = Light transmission figures apply to 3 mm sheet thickness only.

Please contact us for all your special requirements.

COMPARATIVE PROPERTIES					
Ref : Page 52		XT	XT610	XT620	XT630
Density	g/cm <sup>3</sup>	1.19	1.15	1.16	1.17
Impact Strength	kJ/m <sup>2</sup>	17	60	35	25



COLOUR	FEATURES	LT	SIZE mm	SHEETS PER PALLET			
				THICKNESS in mm			
<b>XT SOUND BARRIER WALL (SBW)*</b>				15	18	20	25
Clear		90%	3050 x 2050	•	•	•	•
Blue 115		44%	3050 x 2050	•	•	•	•
Blue 120		50%	3050 x 2050	•	•	•	•
Green 110		83%	3050 x 2050	•	•	•	•
Green 036		67%	3050 x 2050	•	•	•	•
Green 125		86%	3050 x 2050	•	•	•	•
Brown 115		45%	3050 x 2050	•	•	•	•
Grey 115		7%	3050 x 2050	•	•	•	•
<b>XT SOUND BARRIER WALL (SBW)* FLY SAFE*</b>				15	18	20	25
Clear		90%	3050 x 1900	•	•	•	

Ref \*: Tested and certified in accordance with the requirements of EN1793 and 1794 and approved for use in Sound Barrier Walls.

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Products having a number of sheets per pallet in the table are available on stock.

• = Available in our product offer, but subject to special conditions.  
 LT = Light transmission figures apply to 20 mm sheet thickness only.

Please contact us for all your special requirements.



COLOUR	FEATURES	LT	SIZE mm	SHEETS PER PALLET				
				THICKNESS in mm				
XT SBW SOFT TONE*				12**	15	18	20	
Clear	Single-sided ST		3050 x 2050	•	•	•	•	
Blue 115	Single-sided ST		3050 x 2050	•	•	•	•	
Blue 120	Single-sided ST		3050 x 2050	•	•	•	•	
Green 110	Single-sided ST		3050 x 2050	•	•	•	•	
Green 036	Single-sided ST		3050 x 2050	•	•	•	•	
Green 125	Single-sided ST		3050 x 2050	•	•	•	•	
Brown 115	Single-sided ST		3050 x 2050	•	•	•	•	
Grey 115	Single-sided ST		3050 x 2050	•	•	•	•	

**XT Soft Tone Double-sided ST** (subject to special conditions): Clear, Blue 115, Blue 120, Green 110, Green 036, Green 125, Brown 115, Grey 115 and additional colours on request.  
 Ref \*: Tested and certified in accordance with the requirements of EN1793 and 1794 and approved for use in Sound Barrier Walls.  
 More detailed information is available on request.  
 Ref \*\* - No Sound Barrier Wall Certificate available.

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