

POLYCASA® XT Soft Tone

Polymethyl Methacrylate Acrylic

Polycasa

Message:

Polycasa® XT Soft Tone is an extruded acrylic sheet with the appearance and feel of traditional frosted glass but without the limitations of size and weight.
Due to its outstanding properties, it offers a wide range of creative possibilities for building and industrial glazing, decoration, lighting and advertising. XT Soft Tone is perfectly appropriate for display applications, its matt finish being particularly suitable to increase light coverage.

CHARACTERISTICS

- Improves light scatter.
- Good optical properties.
- Avoids reflective effects.
- Stylish, trendy look.
- Easy to maintain, handle, fabricate and form.
- Stable thickness tolerances.
- Over lengths available.

APPLICATIONS

- Interior decoration.
- Information signs.
- Displays.
- Showcases.
- Shop fittings.
- Advertising signs and media.

General Information			
Features	Good Processability		
	Opticals		
Uses	Displays		
	Fittings		
	Glazing		
	Lighting Applications		
Appearance	Clear/Transparent		
	Colors Available		
	Matte Finish		
	White		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Molding Shrinkage	0.50 to 0.80	%	
Water Absorption ¹ (23°C, 24 hr)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2
Tensile Stress	70.0	MPa	ISO 527-2

Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Stress	115	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	17	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature ²	104	°C	ISO 306/B50
CLTE - Flow	7.0E-5	cm/cm/°C	DIN 53752
Specific Heat	1470	J/kg/°C	ISO 11357
Thermal Conductivity	0.19	W/m/K	DIN 52612
Maximum Service Temperature			
continuous use	70	°C	
short term use	90	°C	
Gloss	< 35.0		DIN 67530
Forming Temperature			
air pressure	140 to 160	°C	
vacuum	160 to 190	°C	
Optical	Nominal Value	Unit	Test Method
Transmittance	88.0	%	DIN 5036
NOTE			
1.	50x50x4mm ³ (Method 1)		
2.	Pre treatment 16h at 80°C		

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