

Ambrocryl Frost

EXTRUDED ACRYLIC FROST SHEETS

Ambrocryl Frost are extruded acrylic sheets with a satin and matt surface. This anti-glare effect meets the demands of the LED lighting market. The light diffusion properties guarantee maximum light transmission without reducing the light source. The sheets are suitable for a wide range of indoor and outdoor applications. They are resistant to atmospheric agents, strong and resistant to abrasion. It is possible to obtain different light transmission varying the thickness of the material. On request, dedicated productions are possible according to your specifications in terms of transmission, color and mechanical characteristics to obtain the desired lighting effect. Produced with certified raw material.

STRENGTHS

- :: excellent light diffusion
- :: light transmission without LED spots
- :: scratch-resistant satin surface
- :: thermoformable
- :: UV resistant
- :: good workability

APPLICATIONS

Lighting and thermoforming
Advertising panels
Interior furnishings, bathrooms, kitchens
Shops and exteriors, balconies and roofs.

TECHNICAL DATA

Width on request from 500 mm to 1400 mm
Length on request from 500 mm to 3050 mm
Thickness from 2 - 3 - 4 - 5 - 6 mm
Natural color or colored sheets on request

**AMBRO
POLYMER**

AMBRO POLYMER S.r.l.
Via Risorgimento, 29
21020 Bodio Lomnago (VA) - Italia
Tel. +39 0332 947121 - info@ambropol.com
www.ambropol.com

Technical datasheet PMMA Frost

PROPERTY	TEST METHOD	UNITS	VALUE
OPTICAL-LightTransmission	ASTM D1003	%	2.5mm 58.
			2.0mm 71.
			1.5mm 77.
			1.0mm 83.
OPTICAL-Haze	ASTM D1003	%	2.5mm 99.
			2.0mm 98.
			1.5mm 98.
			1.0mm 97.
THERMAL			
Melt Flow Index	ISO 1133	gms/10mins	1.5
Vicat Softening Point	ISO 306A	°C	108
	ISO 306B	°C	101
Heat Deflection Temperature	ISO 75A	°C	95
	ISO 75B	°C	99
MECHANICAL			
Tensile Strength	ISO 527	MPa	72
Elongation	ISO 527	%GPa	6.4
Flexural Modulus	ISO 178	MPa	3.2
Flexural Strength	ISO 178	kJ/m ²	120
Izod Impact Strength	ISO 180/1A	kJ/m ²	1.6
CharpyImpactStrength	ISO 179/1eA	kJ/m ²	2.0
	ISO 179/1eU		22
GENERAL			
Relative Density	ISO 1183	-	1.19
Rockwell Hardness	ISO 2039-2	M Scale	90
Ball Indentation Hardness	ISO 2039-1	MPa	170
	(H961/30)		
Water Absorption	ISO 62	%	0.30
Flammability	UL94	-	HB
Glow Wire Test	IEC 695-2-1	°C	650

The above data represents typical results obtained using standard test pieces, it should not form the basis of specifications. Information contained in this publication (and otherwise supplied to users) is based on our general experience and is given in good faith, but we are unable to guarantee its accuracy or to accept responsibility in respect of factors outside our knowledge or control.