

PLEXIGLAS® Sheet UV 100

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

PLEXIGLAS® UV 100 is an extremely weather-resistant and highly transparent extruded sheet material made from acrylic (polymethylmethacrylate, PMMA). Due to these properties PLEXIGLAS® UV 100 is suitable for the following applications - Glazing for UV-sensitive artworks and objects d'art
Picture glazing

General Information			
Features	Good UV Resistance		
	Good Weather Resistance		
	High Hardness		
	Low Molecular Weight		
	Recyclable Material		
Uses	Glazing		
Appearance	Clear/Transparent		
Forms	Sheet		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3300	MPa	ISO 527-2
Abrasion Resistance			
100 U; 5.4 N; CS-10 F	20.0 to 30.0	% Haze	ISO 9352
3 kg, reduced luminance	22.0	cd/lx/m ²	DIN 52348
Fire Rating	B2, Normally flammable		DIN 4102
Smoke Gas Corrosiveness	Non-corrosive		VDE 0482-267
Smoke Gas Volume	Very Low		DIN 4102
Smoke Toxicity	Non-toxic		DIN 53436
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	15	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow (0 to 50°C)	7.0E-5	cm/cm/°C	DIN 53752
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+13	ohms	IEC 60093
Electric Strength	0.50 to 1.0	kV/mm	IEC 60243-1
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.491		ISO 489
Transmittance			
-- 1	92.0	%	

-- ²	< 0.1	%	DIN 5036
-- ³	0.3	%	DIN EN 410
NOTE			
1.	In the visible range		
2.	D65		
3.	In the UV range		

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Recommended distributors for this material

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WECHAT