

PLEXIGLAS® Sheet UV 100 HC

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). Because of a one-side coating PLEXIGLAS® UV 100 HC offers additionally to the high UV- protection excellent resistance to abrasion and chemicals. 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 Abrasion Resistance		
	Good Chemical Resistance		
	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	< 3.00	% Haze	ISO 9352
3 kg, reduced luminance	< 2.30	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	10	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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