

PLEXIGLAS® Sheet Optical HC

Polymethyl Methacrylate Acrylic

Evonik Industries AG

Message:

PLEXIGLAS® Optical hard coated (HC) is an extruded acrylic sheet material. The surface coating offers excellent resistance to abrasion and chemicals. The material also shows outstanding optical properties. The sheet is coated on one side and is particularly recommended for demanding applications exposed to heavy wear and frequent cleaning. PLEXIGLAS® Optical hard coated also provides optimal protection in high-traffic areas. The coating preserves the material's surface appearance. Applications:

Aviation (dust covers for windows)

Conservation glazing and show cases

Electronic displays

Furniture and shop fitting

Industrial glazing

Picture framing

Signage

General Information			
Features	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Surface Finish		
	Good UV Resistance		
	High Hardness		
Uses	Aircraft Applications		
	Electronic Displays		
	Furniture		
	Glazing		
	Industrial Applications		
Forms	Sheet		
Processing Method	Extrusion		
Hardness	Nominal Value		Test Method
Pencil Hardness			EN 13523-4
Taber Abrasion Resistance - 100 cycles, 5,4 N, CS-10F	< 35H	% Haze	ISO 9352
Flame Resistance			
--	B2		DIN 4102
--	E		EN 13501-1
Smoke Density	Meets Requirements		FAR 25.853
Toxicity	Meets Requirements		Internal Method
Falling Sand Test	2.30	cd/lx/m ²	DIN 52348
Adhesion Strength	GT 0		ISO 2409
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3450	MPa	ISO 527-2

Tensile Stress	67.5	MPa	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	10	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	106	°C	ISO 306/B
Optical	Nominal Value	Unit	Test Method
Transmittance	92.0	%	DIN 5036
Yellowness Index	< 0.50	YI	ASTM D1925

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