

ACRYLITE® Sheet Optical HC

Polymethyl Methacrylate Acrylic

Evonik Cyro LLC

Message:

ACRYLITE® Optical hard coat is unlike any other hard coated flat acrylic sheet in the market. Using a proprietary application method, our one side hard coated sheet offers exceptional optical clarity and surface quality with an excellent abrasion and chemical resistant coating. Perfect for demanding environments, ACRYLITE® Optical hard coat is the right choice for any application that requires heavy wear and tear and frequent cleaning.

Applications

- digital printing & signage
- furniture & retail/POP displays
- gaming & vending machines
- picture framing
- aviation (dust covers for windows)
- electronic displays
- industrial glazing

General Information			
Features	Good wear resistance		
	Good chemical resistance		
	Good weather resistance		
	Definition, high		
	Good appearance		
	High hardness		
Uses	Displays		
	Electronic display		
	Aircraft applications		
	Industrial application		
	Assembled glass		
Appearance	Clear/transparent		
Forms	Sheet		
Hardness	Nominal Value		Test Method
Pencil Hardness	5H		EN 13523-4
Adhesion Strength	GT 0		ISO 2409
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2760	MPa	ASTM D638
Tensile Strength	68.9	MPa	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	21	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	104	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method

Transmittance	92.0	%	ASTM D1003
Yellowness Index	< 0.50	YI	DIN 5036
Additional Information	Nominal Value		Test Method

Abrasion Resistance of Coating

Taber abrasion (100 cycles, 5, 4, N, CS-10F) : <3% Change in Haze (ISO 9352)

Falling sand test : <3% Change in Haze (DIN 52348)

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