

ACRYLITE® Sheet GMS

Polymethyl Methacrylate Acrylic
Evonik Cyro LLC

Message:

ACRYLITE® GMS acrylic sheet meets and is certified to MIL-P-5425E for use in the aviation industry as a laminate part or as a stand alone sheet. It has the optical quality, hardness and sheet tolerance required by the industry. It is manufactured using equipment that is reserved for aviation acrylic products and is subjected to a rigorous optical inspection, the most critical in the industry. Current applications include instrument panels, wingtip lenses, dust covers, helicopter bubbles and aircraft canopies.

General Information			
Features	Good Thermal Shock Resistance		
	High Clarity		
	Machinable		
Uses	Aircraft Applications		
	Laminates		
	Lenses		
Agency Ratings	MIL P-5425		
Appearance	Clear/Transparent		
	Colors Available		
Forms	Sheet		
Processing Method	Thermoforming		
	Vacuum Forming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.33	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	75.8	MPa	ASTM D638
Tensile Elongation (Yield)	5.7	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	115	°C	ASTM D648
CLTE - Flow	6.1E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Burning Rate (6.35 mm)	32	mm/min	ASTM D635
Optical	Nominal Value	Unit	Test Method
Transmittance			
-- 1	92.3	%	ASTM D1003


-- ²	92.6	%	Internal Method
Haze			
-- ³	0.40	%	ASTM D1003
-- ⁴	0.40	%	Internal Method
Additional Information	Nominal Value	Unit	
Internal Strain ⁵	< 1.0	%	
NOTE			
1.	After Accelerated Weathering		
2.	Initial (MIL-P-8184F)		
3.	After Accelerated Weathering		
4.	Initial (MIL-P-8184F)		
5.	MIL-P-8184F		

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