

# ACRYLITE® Sheet GMU

Polymethyl Methacrylate Acrylic  
Evonik Cyro LLC

Message:

ACRYLITE® GMU sheet is a cell cast acrylic sheet designed for general aviation and helicopter window applications and is superior to standard cell cast acrylics in both optical quality and thickness tolerance. It is manufactured using the same process and the exacting optical requirements as product manufactured to meet MIL P-8184F and MIL P-5425E. ACRYLITE® GMU sheet is a good choice for meeting the difficult optical requirements of MIL P-8184F and P-5425E, but is more economical and ideal for many non-military aircraft applications.

General Information	
Features	Good Thermal Shock Resistance
	High Clarity
	Machinable
Uses	Aircraft Applications
Appearance	Clear/Transparent
	Colors Available
Forms	Sheet
Processing Method	Thermoforming
	Vacuum Forming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm <sup>3</sup>	ASTM D792
Water Absorption (24 hr)	0.80	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	68.9	MPa	ASTM D638
Tensile Elongation (Yield)	4.2	%	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 (3.00 mm)	46	mm/min	ASTM D635
Optical	Nominal Value	Unit	Test Method
Transmittance <sup>1</sup>	92.0	%	Internal Method

NOTE			
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1. Initial (MIL-P-8184F)

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Recommended distributors for this material

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