

Monogal-F

Monogal F extruded polycarbonate sheet offers high impact resistance with enhanced UV and fire-resistant properties. Monogal F has superior clarity, is half the weight of glass, and is virtually unbreakable. Monogal F sheets are ideal for applications requiring high temperature resistance including automotive, aerospace, electrical housings and covers, lighting, machinery and safety and construction.

*Low Flammability
Solid Polycarbonate
Sheets*

Product Information

Gauges	.080" - .236"	
Standard Sizes	Length: 96"	Widths: 48", 60", 72"
Tolerances	Gauge $\pm 5\%$ (Gauges: .080" - .236")	Width & Length, Standard: .000" (Minimum) .250" (Maximum)
Availability	48" - Generally Common Stock	60" / 72" - Contact customer service for availability
Packaging Information	Available in 1/2 pallet and full pallet quantities	
Masking Information	Standard Monogal PE film Two (2) sides	Additional Monogal-F identification strip

General Properties	Method	Units	Value
Physical			
Density	ASTM D 792	g/cm ³	1.2
Light Transmission (depending on thickness)	ASTM D 1003	%	81-90
Refractive index	ASTM D 542		1,585
Mechanical			
Tensile Strength at yield	ASTM D 638	PSI	9,300
Tensile Modulus	ASTM D 638	PSI	335,620
Elongation at break	ASTM D 638	%	>100
Flexural Strength	ASTM D 790	PSI	13,450
Flexural Modulus	ASTM D 790	PSI	338,690
Rockwell Hardness	ASTM D 785	M-Scale	70
Impact Resistant – Izod Notched @0.125"	ASTM D 256	ft. lbs/in	18
Thermal			
Heat Deflection temperature under load of 264 PSI	ASTM D 648	°F	270
Vicat Softening temp (50N)	ASTM D 1525	°F	290
Coefficient of Thermal Conductivity	ASTM D 177	BTU-in/hr-ft ² • °F	0.2
Coefficient of Linear Thermal Expansion – parallel	ASTM D 696	in/in °F	3.8 • 10 ⁵
Flammability			
Flame Class @.080"	UL-94		V-0
FAA Flammability	FAR 25.853		
.080" - .236"	Part 1. a (i) - 60 sec		Pass
.080" - .236"	Part 1. a (ii) - 12 sec		Pass
Electrical			
Volume Resistivity	ASTM D 257	$\Omega \cdot \text{cm}$	8.2 • 10 ¹⁶
Surface Resistivity, dry	ASTM D 257	Ω	6 • 10 ¹⁵
Dissipation Factor 1Mhz	ASTM D 150		0.009
Dissipation Factor 100Mhz	ASTM D 150		0.0006

Polygal Inc. | plazit-polygal.com | 1100 Bond Street, Charlotte, NC 28208 | 1-800-537-0095

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