

# Makrolon® LF sheet

### Low flammability

Makrolon® LF sheet is a flame resistant, UV stabilized, transparent polycarbonate product. It features a UL 94 V-0 rating and meets FAR 25.853 (a), 1, (i) requirements at 0.080" and thicker. The product offers high impact strength, superior dimensional stability, high temperature resistance, and high clarity. This lightweight thermoformable sheet is also easy to fabricate and decorate.

### **Applications**

Electrical devices, equipment housings, switchgear covers, light fixtures

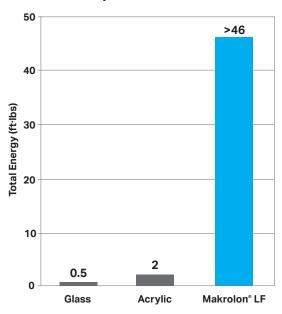
Typical Properties*			
Property	Test Method	Units	Values
PHYSICAL			
Specific Gravity	ASTM D 792	_	1.2
Light Transmission, Clear @ 0.118"	ASTM D 1003	%	86
Haze, Clear	ASTM D 1003	%	<1
MECHANICAL			
Tensile Strength, Break	ASTM D 638	psi	9,500
Flexural Strength	ASTM D 790	psi	13,500
Compressive Strength	ASTM D 695	psi	12,500
Modulus of Elasticity	ASTM D 638	psi	345,000
Izod Impact Strength, Notched @ 0.125"	ASTM D 256	ft·lbs/in	15
lzod Impact Strength, Unnotched @ 0.125"	ASTM D 256	ft·lbs/in	60 (no failure)
Instrumented Impact	ASTM D 3763	ft·lbs	>46
THERMAL			
Coefficient of Thermal Expansion	ASTM D 696	in/in/°F	3.75 x 10 <sup>-5</sup>
Heat Deflection Temperature @ 264 psi	ASTM D 648	°F	270
Heat Deflection Temperature @ 66 psi	ASTM D 648	°F	280
FLAMMABILITY			_
Flame Class @ 0.080"	UL 94	_	V-0
FAA Flammability	FAR 25.853		
@ 0.080″ - 0.250″	Part 1, a (i) - 60 sec	_	Pass
@ 0.080″ - 0.250″	Part 1, a (ii) - 12 sec	-	Pass

 $<sup>\</sup>ensuremath{^{\star}}\xspace$  Typical properties are not intended for specification purposes.



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#### Impact Resistance\*



\*Instrumented Impact per ASTM D 3763, sample thickness 0.125" nominal

### Agency and specification compliance

Polycarbonate sheet classification	A-A-59502	Type II Class 1
Polycarbonate resin classification	ASTM D 3935	PC0120
Flammability - Plastic component	UL 94	UL File #E351891
Flammability - FAA	FAR 25.853	Part 1 60-second and 12-second



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With respect to health, safety and environment precautions, the relevant Safety Data Sheets (SDS) and product labels must be observed prior to working with our products.