

**PRODUCT DESCRIPTION - DATA SHEET**

PL3022-I FR 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 thermoplastic sheet is also easy to fabricate and decorate.

**Application**

- Electrical devices
- Equipment housings
- Switchgear covers
- Light fixtures

Typical Properties	Standard	Value	PolyLine™ PL3022-I FR
<b>Physical Properties</b>			
Specific Gravity	ASTM D792	-	1.2
Light Transmission, Clear @ 0.118"	ASTM D1003	%	86
Haze, Clear	ASTM D1003	%	<1
<b>Mechanical Characteristics</b>			
Tensile Strength, Break	ASTM D638	psi	9,500
Flexural Strength	ASTM D790	psi	13,500
Compressive Strength	ASTM D695	psi	12,500
Modulus of Elasticity	ASTM D638	psi	345,000
Izod Impact Strength, Notched @ 0.125"	ASTM D256	ft-lbs/in	15
Izod Impact Strength, Unnotched @ 0.125"	ASTM D256	ft-lbs/in	60 (no break)
Instrumented Impact	ASTM D3763	ft-lbs	46
<b>Thermal Characteristics</b>			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75 x 10 <sup>-5</sup>
Heat Deflection Temperature @ 264 psi	ASTM D648	°F	270
Heat Deflection Temperature @ 66 psi	ASTM D648	°F	280
<b>Flammability</b>			
Ignition Temperature, Self	ASTM D1929	°F	950
Ignition Temperature, Flash	ASTM D1929	°F	842
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

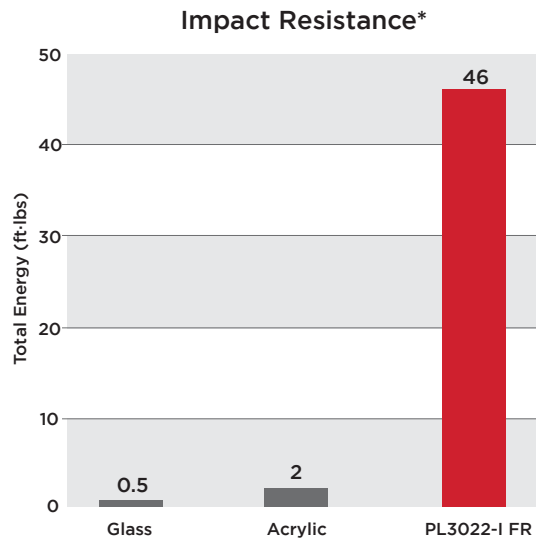
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**POLYLINE™ PL3022-I FR**  
**Flame Retardant Polycarbonate Sheet**



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

**Regulatory Code Compliance and Certifications**

Polycarbonate sheet classification	A-A-59502	Type II Class 1
Polycarbonate resin classification	ASTM D 3935	PC0120
Flammability - Plastic component	UL 94	UL File #E87887
Flammability - FAA	FAR 25.853	Part 1 60-second and 12-second

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