## **AZCARB**



## AZCARB FR Flame Resistant Polycarbonate Sheet

**AZCARB FR** is a polished surface, flame resistant, UV stabilized, high optic transparent polycarbonate sheet. It features a UL 94 V-0 rating and meets FAR 25.853 requirements at 0.080" and thicker. This product offers high impact strength, superior dimensional stability, high temperature resistance, and excellent clarity. This lightweight thermoformable sheet is also easy to fabricate and decorate. Applications include electrical devices, equipment housings, switchgear covers and light fixtures.

- UL 94 V-0 rating at 0.177" & 0.236"
- UL 94 V-2 at 0.080", 0.093" & 0.118"
- NFPA ASTM E84 Class A
- High Impact Strength 200x stronger than glass and 20x stronger impact strength than standard Acrylic
- High clarity and light transmission
- Lightweight
- Recyclable
- Limited five (5) year warranty against breakage



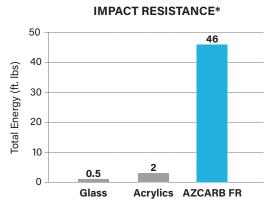


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TYPICAL STANDARD PROPERTIES1

PROPERTY	TEST METHOD	UNITS	AZCARB GP
PHYSICAL			
Specific gravity	ASTM D792	N/A	1.2
Light transmission, clear @ 0.118"	ASTM D1003	%	87
Haze, clear	ASTM D1003	%	<1
MECHANICAL			
Tensile strength, break	ASTM D638	psi	9,500
Flexural strength	ASTM D790	psi	13,500
Compression strength	ASTM D695	psi	12,500
Modulus of elasticity	ASTM D638	psi	345,000
Izod impact strength, notched @ 1/8"	ASTM D256	ft-lbs/inch	15
Izod impact strength, unnotched @ 1/8"	ASTM D256	ft-lbs/inch	60 (no break)
Instrumental impact	ASTM D3763	ft-lbs	46
THERMAL			
Coefficient of thermal expansion	ASTM D696	in/in/°F	0.0000375
Heat deflection temperature @ 264 psi	ASTM D648	°F	270
Heat deflection temperature @ 66 psi	ASTM D648	°F	280
FLAMMABILITY			
Ignition temperature, self	ASTM D1929	°F	950
Ignition temperature, flash	ASTM D1929	°F	842
Flame class @ 0.080"	UL94	-	V-2
Flame Class @ 0.177"	UL94	-	V-0

<sup>&</sup>lt;sup>1</sup>Values reported are averages and should not be used for specification purposes.



<sup>\*</sup> Instrumented Impact per ASTM D 3763. Sample thickness 0.125" nominal.

AZAMS FR Phycarbonate Sheet is a combustible thermoplastic. Observe five precautions appropriate for comparable forms of wood and paper for building user, check code approvals, impact resistance is a factor of thickness. And exposure to hot or annualic solventic. Clean with soap and water. Annual factor is finished provided in provide and or finished interest in a finished provided in the finished provided in the finished provided in the finished provided in the finished between 5 cannot be annual collection and method or during the finished provided in the finishe

## **REGULATORY CODE COMPLIANCE & CERTIFICATIONS**

Polycarbonate sheet	A-A-59502	Type II Class 1
classification		
Polycarbonate resin	ASTM D 3935	PC0120
classification		
Flammability -	UL94	UL File # E528611
plastic component		



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