

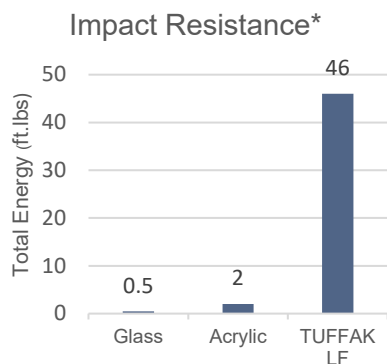
# TUFFAK LF

## Low Flammability

TUFFAK 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



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

## Typical Properties\*

Property	Test Method	Units	Values
<b>PHYSICAL</b>			
Specific gravity	ASTM D 792	-	1.2
Light transmission, Clear @ 0.118"	ASTM D 1003	%	86
Haze, Clear	ASTM D 1003	%	<1
<b>MECHANICAL</b>			
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
Izod impact strength, notched @ 0.125"	ASTM D 256	ft-lbs/in	15
Izod impact strength, unnotched @ 0.125"	ASTM D 256	ft-lbs/in	60 (no break)
Instrumented Impact	ASTM D 3763	ft-lbs	46
<b>THERMAL</b>			
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
<b>FLAMMABILITY</b>			
Ignition temperature, self	ASTM D 1929	°F	950
Ignition temperature, flash	ASTM D 1929	°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 (i) – 12 sec	-	Pass

\*Typical properties are not intended for specification purposes.

## 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

GP Products have limited weathering properties, for more information contact your A&C Plastics representative.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.