

TUFFAK LF POLYCARBONATE SHEET

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

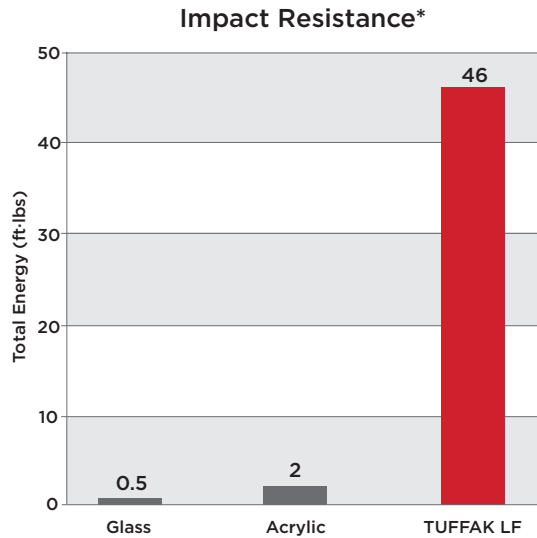
Electrical devices, equipment housings, switchgear covers, light fixtures

Typical Properties*

Property	Test Method	Units	Values
PHYSICAL			
Specific Gravity	ASTM D792	-	1.2
Light Transmission, Clear @ 0.118"	ASTM D1003	%	86
Haze, Clear	ASTM D1003	%	<1
MECHANICAL			
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
THERMAL			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75 x 10 ⁻⁵
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"	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

*Typical properties are not intended for specification purposes.

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*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

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.

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