

TUFFAK FO polycarbonate sheet

FLAME INHIBITING OPTICAL QUALITY

TUFFAK FO is a flame resistant, UV stabilized, transparent polycarbonate product designed for use in applications requiring improved optical quality. While meeting FAR 25.853 (a), 1, (i) requirements at 0.080" and thicker, it features high impact strength, superior dimensional stability, high temperature resistance, high clarity, and enhanced optical properties. This lightweight thermoformable sheet is also easy to fabricate and decorate.

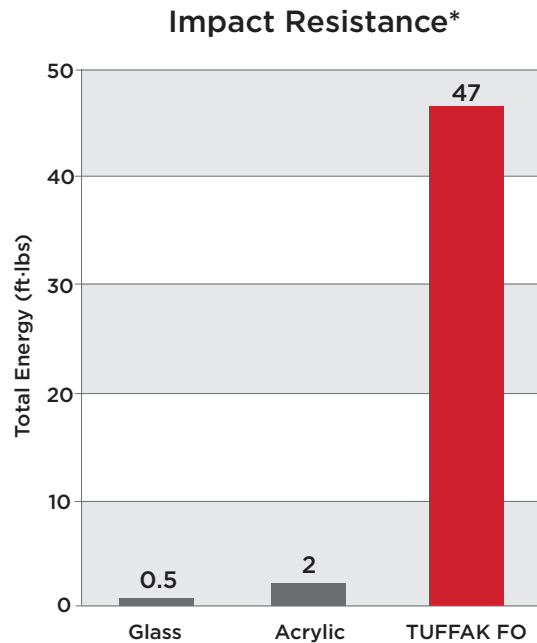
APPLICATIONS

Aircraft mirrors

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
Izod Impact Strength, Unnotched @ 0.125"	ASTM D 256	ft-lbs/in	60 (no break)
Instrumented Impact	ASTM D 3763	ft-lbs	47
THERMAL			
Coefficient of Thermal Expansion	ASTM D 696	in/in/°F	3.75 x 10 ⁻⁵
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

*Typical properties are not intended for specification purposes

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*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

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 determine the suitability of our materials and suggestions before adopting them on a commercial scale.

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