

TECHNICAL DATA SHEET

Flame Retardant Polycarbonate Sheet

ProductName & No: **FR5000**



Product Description

PolyLine FR5000 is a translucent white polycarbonate sheet with a light transmittance of 44% (3.0mm). The material was specially developed and is used for lighting covers in aircraft, busses and rail cars.

Product Datasheet

Physical Properties

Property	Typical Value	Unit	Test Method
Density	1.2	g/cm ³	ISO 1183
Vicat	145	°C	ISO 306
Max. Service Temperature	115	°C	-
Tensile Strength	60	MPa	ISO 527
Tensile Elongation	80	%	ISO 527
Modulus of Elasticity	2,100	MPa	ISO 527
Charpy Impact Strength	No Failure	KJ/m ²	ISO 179

Aviation Requirements and Approvals

Requirement	
FAR 25.853 (a) (1) (i); AITM 2.0002; 60 s Vertical Burn	Pass
FAR 25.853 (a) (1) (ii); AITM 2.0002; 12 s Vertical Burn	Pass
FAR 25.853 (c); AITM 2.0007; Smoke Density	Pass
AITM 3.0005; Toxicity	Pass
UL 94 Flammability Rating	V0

Sales Range

Thickness (mm)	Width (mm)	Length (mm)	Texture, Surface
2.0 - 3.0	1,250 or 1,400	up to 6,000	Smooth