

## TECHNICAL DATA SHEET

### Flame Retardant Polycarbonate Sheet

ProductName & No: **FR1000**



### Product Description

PolyLine FR1000 is based on a polycarbonate blend. The sheet meets the regulations for fire behavior of materials in the aircraft cabin including OSU heat release requirement. It is ideally suitable for vacuum deep-drawing and can be used to thermoform parts for aircraft seats, tables, trays, wall covers and other components in the cabin. FR1000 is made to customer needs in several colors and with a mat texture (hair cell) on one side.

### Product Datasheet

#### Physical Properties

Property	Typical Value	Unit	Test Method
Density	1.30	g/cm <sup>3</sup>	ISO 1183
Tensile Modulus	3100	MPa	ISO 527
Tensile Stress at Yield	45	MPa	ISO 527
Tensile Strain at Break	12	%	ISO 527
Vicat Softening Temperature	130	°C	ISO 306
Charpy Impact Strength	No Break	KJ/m <sup>2</sup>	ISO 179-1/1fU
Charpy Notched Impact Strength	15	KJ/m <sup>2</sup>	ISO 179-1/1eA
Burning Behavior UL 94V [Own Test], 1.5 mm	V0	class	UL 94V

#### 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 2.0006; [OSU] Heat Release 65/65	Pass
FAR 25.853 (c); AITM 2.0007; Smoke Density	Pass
AITM 3.0005; Toxicity	Pass

#### Sales Range

Property	Dimension (mm)
Extrusion Width	1250 or 1400
Extrusion Length	Up to 3000
Thickness	1.0 - 4.0