

EUROPLEX® F10

EUROPLEX® F10 sheet material, aviation grade

EUROPLEX® F10 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. EUROPLEX® F10 is made to customer needs in several colors and with a mat texture (hair cell) on one side.

Physical properties

Property	Test method	Unit	Typical value
Density	ISO 1183	g/cm ³	1.30
Tensile modulus	ISO 527	MPa	3100
Tensile stress at yield	ISO 527	MPa	45
Tensile strain at break	ISO 527	%	12
Vicat softening temperature	ISO 306	°C	130
Charpy impact strength	ISO 179-1/1fU	KJ/m ²	No break
Charpy notched impact strength	ISO 179-1/1eA	KJ/m ²	15
Burning behavior UL 94V (own test), 1.5 mm	UL 94V	class	V0

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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