

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 |