

EUROPLEX® Sheet F7

Polycarbonate

Evonik Industries AG

Message:

EUROPLEX® F3, F7, and F6 are flame-retardant grades of polycarbonate sheet (PC) whose flame-retardant properties have been further improved beyond those of standard polycarbonate sheet. The EUROPLEX® F series meets the fire standard requirements for many applications in public transportation and also offers excellent impact resistance and strength. It is easy to fabricate and can be formed into complex shapes using standard thermoforming equipment.

EUROPLEX® F7

EUROPLEX® F7 is a transparent, UV stabilized PC sheet with especially low smoke emissions intended for interior applications. It is used for dust covers, lighting covers, emergency lighting systems and other similar applications in aircraft, and is ideally suited wherever lightweight, transparent and flame-retardant materials are required.

General Information			
Additive	UV Stabilizer		
Features	Flame Retardant		
	Good UV Resistance		
	High Impact Resistance		
	High Strength		
	Low Smoke Emission		
Uses	Aircraft Applications		
	Aircraft Interiors		
	Lighting Applications		
Agency Ratings	FAA FAR 25.853a (1)(i) 2		
	FAA FAR 25.853a (1)(ii)		
	FAA FAR 25.853c		
Appearance	Clear/Transparent		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2100	MPa	ISO 527-2
Tensile Stress	60.0	MPa	ISO 527-2
Tensile Strain (Break)	80	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	145	°C	ISO 306

Maximum Service Temperature	115	°C
Flammability	Nominal Value	Test Method
Flame Rating (2.00 mm)	V-0	UL 94

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Recommended distributors for this material

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