

EUROPLEX® Sheet F3

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® F3

EUROPLEX® F3 is a series of opaque PC sheets available in over 100 different colors; virtually any custom color can be provided upon request. The sheets are manufactured with a matte texture (hair cell) on one side and are ideally suited for a wide range of applications such as interior panels, seat shells, and other components in public transport, computer housing, electronic and electrical equipment, as well as seat lining , tables, trays, and carts in aircraft.

General Information			
Features	Flame Retardant		
	High Impact Resistance		
	High Strength		
Uses	Aircraft Applications		
	Aircraft Interiors		
	Computer Components		
	Electrical/Electronic Applications		
	Housings		
	Seats		
	Table Products		
Agency Ratings	FAA FAR 25.853a (1)(i)		
	FAA FAR 25.853a (1)(ii)		
	FAA FAR 25.853c		
Appearance	Colors Available		
	Matte Finish		
	Opaque		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm³	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	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

