Celanex® XFR 6842 GF30

Polybutylene Terephthalate

Celanese Corporation

Message:

Celanex XFR 6842 GF30 is a halogen and antimony free flame retardant (V-0 @ 0.4 mm) 30% glass reinforced PBT grade with good processability and no corrosive emissions during processing. It is suitable for parts requiring enhanced tracking resistance, toughness, and flame retardancy at <0.75 mm wall thickness. The product is WEEE and RoHS compliant.

General Information			
UL YellowCard	E45575-100239525		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Flame Retardant		
Features	Antimony Free Flame Retardant Good Processability Halogen Free		
Agency Ratings	EU 2002/96/EC (WEEE)		
RoHS Compliance	RoHS Compliant		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.53	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/5.0 kg)	18.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.80 to 1.0	%	
Flow	0.30 to 0.50	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	83		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	9800	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	102	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.1	%	ISO 527-2/1A/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	6.9	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	35	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	7.4	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	203	°C	ISO 75-2/A
Vicat Softening Temperature	207	°C	ISO 306/B50
Melting Temperature [1]	225	°C	ISO 11357-3

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	4.0E+16	ohms	IEC 60093
Volume Resistivity	2.0E+16	ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	3.60		IEC 60250
Dissipation Factor (1 MHz)	0.014		IEC 60250
Comparative Tracking Index	525	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.400 mm)	V-0		UL 94
NOTE			
1.	10°C/min		

Recommended distributors for this material

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