

Celanex® XFR 6842 GF15

Polybutylene Terephthalate

Celanese Corporation

Message:

Celanex XFR 6842 GF15 is a halogen and antimony free flame retardant (V-0 @ 0.4 mm) 15% 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	E45575-100217517		
Filler / Reinforcement	Glass Fiber,15% 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	1.42	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	6.90	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.0 to 1.2	%	
Flow	0.50 to 0.70	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	83		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6500	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	79.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.1	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.5	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	32	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	6.0	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	194	°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	1.0E+16	ohms	IEC 60093
Volume Resistivity	2.0E+16	ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	3.30		IEC 60250
Dissipation Factor (1 MHz)	0.015		IEC 60250
Comparative Tracking Index	425	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.400 mm)	V-0		UL 94
NOTE			
1.	10°C/min		

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