

Celanex® XFR 6842 GF10

Polybutylene Terephthalate

Celanese Corporation

Message:

Celanex XFR 6842 GF10 is a halogen and antimony free flame retardant (V-0 @ 0.4 mm) 10% 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	E45575-100208623		
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Additive	Flame retardancy		
Features	Workability, good		
	Good toughness		
	Halogen-free		
	No antimony		
	Flame retardancy		
Agency Ratings	EU 2002/96/EC (WEEE)		
RoHS Compliance	RoHS compliance		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	12.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	1.0 - 1.2	%	ISO 294-4
Flow	1.1 - 1.3	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	81		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5100	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	70.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.4	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.2	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	30	kJ/m²	ISO 179/1eU
Notched Izod Impact (23°C)	4.5	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	173	°C	ISO 75-2/A
Vicat Softening Temperature	205	°C	ISO 306/B50

Melting Temperature ¹	225	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0E+15	ohms	IEC 60093
Volume Resistivity	3.0E+16	ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	2.90		IEC 60250
Dissipation Factor (1 MHz)	0.014		IEC 60250
Comparative Tracking Index	450	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.40 mm)	V-0		UL 94
NOTE			
1.	10°C/min		

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