CELANEX® XFR 6842 GF15

PBT-GF15 Celanese

Product Texts

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.

Flammability at thickness h (0.4 mm)	V-0	-

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**7**	cm³/10min	ISO 1133
Temperature	**250**	°C	-
Load	**2.16**	kg	-
[C] Molding shrinkage, parallel	**0.6**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.1**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**6500**	MPa	ISO 527
[C] Stress at break	**80**	MPa	ISO 527
[C] Strain at break	**3**	%	ISO 527
[C] Charpy impact strength, +23°C	**32**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**5.5**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**225**	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**194**	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**206**	°C	ISO 306
[C] Burning Behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**0.4**	mm	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Relative permittivity, 1MHz	**3.3**	-	IEC 62631-2-1
[C] Dissipation factor, 1MHz	**150**	E-4	IEC 62631-2-1
[C] Volume resistivity	**>1E13**	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	**>1E15**	Ohm	IEC 62631-3-2

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	**1420**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Delivery form
Pellets

Features
Low Emission

Certifications
RoHS compliant

Special Characteristics
Flame retardant, Halogen-free

Regional Availability
North America, Europe