CELANEX® 7416

PBT-(GF+MD)35 Celanese

Product Texts

Celanex 7416 is a 35% glass/mineral reinforced, non exuding, flame retarded polybutylene terephthalate which has and excellent balance of mechanical properties and processability. Celanex 7416 is well suited for electrical applications where warp resistance or very flat surfaces are required.

Flammability at thickness h (0.8 mm)	V-0	-

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**10**	cm³/10min	ISO 1133
Temperature	**250**	°C	-
Load	**2.16**	kg	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**10500**	MPa	ISO 527
[C] Stress at break	**95**	MPa	ISO 527
[C] Strain at break	**1.8**	%	ISO 527
[C] Charpy impact strength, +23°C	**25**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**25**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**5**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**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] Glass transition temperature, 10°C/min	**60**	°C	ISO 11357-1/-2
[C] Temp. of deflection under load, 1.80 MPa	**205**	°C	ISO 75-1/-2
[C] Burning Behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[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] Electric strength	**32**	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Water absorption	**0.35**	%	Sim. to ISO 62
[C] Humidity absorption	**0.15**	%	Sim. to ISO 62
[C] Density	**1770**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Features

Low Warpage

Delivery form
Pellets

Applications
Electrical and Electronical

Special Characteristics
Flame retardant

Regional Availability
Europe