CELANEX® 6500HF

PBT-(GF+MD)30 Celanese

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**0.2**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.7**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**9700**	MPa	ISO 527
[C] Stress at break	**125**	MPa	ISO 527
[C] Strain at break	**2.2**	%	ISO 527
[C] Charpy impact strength, +23°C	**27**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**24**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**6.7**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**7.2**	kJ/m²	ISO 179/1eA
[C] Shore D hardness	**85**	-	ISO 7619-1

[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	**54**	°C	ISO 11357-1/-2
[C] Temp. of deflection under load, 1.80 MPa	**202**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**223**	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**28**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**85**	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Relative permittivity, 100Hz	**3.3**	-	IEC 62631-2-1
[C] Relative permittivity, 1MHz	**3.1**	-	IEC 62631-2-1
[C] Dissipation factor, 1MHz	**120**	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	**31**	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Humidity absorption	**0.19**	%	Sim. to ISO 62
[C] Density	**1550**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Delivery form

Pellets