Celanex® 6500HF

Polybutylene Terephthalate

Celanese Corporation

Message:

6500HF is a high flow, 30% glass/mineral filled polybutylene terephthalate (PBT) with improved warp resistance and surface smoothness.

General Information			
Filler / Reinforcement	Glass\Mineral,30% Filler by Weight		
Features	Good Surface Finish High Flow Warp Resistant		
RoHS Compliance	Contact Manufacturer		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.55	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.50 to 0.80	%	
Flow	0.0 to 0.50	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.19	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	91		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	9700	MPa	ISO 527-2/1A/1
Tensile Strength			
Break, 23°C	110	MPa	ASTM D638
Break	125	MPa	ISO 527-2/1A/5
Tensile Elongation			
Break, 23°C	3.0	%	ASTM D638
Break	2.2	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	9500	MPa	ISO 178
Flexural Stress (23°C)	180	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.2	kJ/m²	
23°C	6.7	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	24	kJ/m²	
23°C	27	kJ/m²	
Notched Izod Impact			

23°C	75	J/m	ASTM D256
23°C	5.3	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed	220	°C	ASTM D648
0.45 MPa, Unannealed	223	°C	ISO 75-2/B
1.8 MPa, Unannealed	204	°C	ASTM D648
1.8 MPa, Unannealed	202	°C	ISO 75-2/A
Glass Transition Temperature	54.0	°C	ISO 11357-2
Melting Temperature [1]	225	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	2.8E-5	cm/cm/°C	
Transverse	8.5E-5	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	6.0E+16	ohms	IEC 60093
Volume Resistivity			
--	1.0E+17	ohms·cm	ASTM D257
--	1.0E+16	ohms·cm	IEC 60093
Dielectric Strength			
-- [2]	24	kV/mm	ASTM D149
--	31	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.30		
1 MHz	3.10		
Dissipation Factor (1 MHz)	0.012		IEC 60250
Comparative Tracking Index	325	V	IEC 60112
NOTE			
1.	10°C/min		
2.	Method A (Short-Time)		

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