



# Celanex® 6500

Celanese Corporation - Polybutylene Terephthalate

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## General Information

### Product Description

Celanex 6500 is a 30% glass/mineral polyester with improved surface finish and a good balance of mechanical properties and processability.

### General

Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• Latin America • North America
Filler / Reinforcement	• Glass\Mineral, 30% Filler by Weight	
Features	• Good Processability	• Good Surface Finish

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (265°C/2.16 kg)	22	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.50 to 0.80	%	
Flow	0.0 to 0.50	%	
Water Absorption (Saturation, 23°C)	0.40	%	ISO 62
Water Absorption (Equilibrium, 23°C, 50% RH)	0.19	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	85		ISO 868
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	223	°C	ISO 75-2/B
Heat Deflection Temperature (1.8 MPa, Unannealed)	202	°C	ISO 75-2/A
Glass Transition Temperature <sup>2</sup>	54.0	°C	ISO 11357-2
Melting Temperature <sup>2</sup>	225	°C	ISO 11357-3
CLTE - Flow	2.8E-5	cm/cm/°C	ISO 11359-2
CLTE - Transverse	8.5E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0E+16	ohms	IEC 60093
Volume Resistivity	2.0E+16	ohms-cm	IEC 60093
Electric Strength	22	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.50		
1 MHz	3.80		
Dissipation Factor (1 MHz)	0.040		IEC 60250
Comparative Tracking Index	325	V	IEC 60112

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 10°C/min