

Celanex® 5205HG

Polybutylene Terephthalate

Celanese Corporation

Message:

Celanex 5205HG is a 15% glass-filled polyester featuring super high surface gloss and high flow for long flow channels. A typical application is oven handles.

General Information			
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight		
Features	High Flow		
	High Gloss		
Uses	Handles		
RoHS Compliance	Contact Manufacturer		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.40 to 0.60	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6400	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	95.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.8	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	6300	MPa	ISO 178
Flexural Stress (23°C)	135	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.7	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength (23°C)	4.5	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	180	°C	ISO 75-2/A
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94

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