

Product Texts

Celanex 5202 is a 15% glass filled polyester blend that features improved surface gloss and has an excellent balance of mechanical properties, processability, and color stability under heat and UV exposure. A typical application for Celanex 5202 is oven handles.

Flammability at thickness h (0.8 HB mm)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.3	%	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	6100	MPa	ISO 527
^[C] Stress at break	100	MPa	ISO 527
^[C] Strain at break	2.5	%	ISO 527
^[C] Charpy impact strength, +23°C	15	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	17	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	4.7	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	4.5	kJ/m ²	ISO 179/1eA
^[C] Shore D hardness	83	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	250	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	50	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	180	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	215	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	42	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	73	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	2.7	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	2.7	-	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	140	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	17	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Humidity absorption	0.17	%	Sim. to ISO 62
^[C] Density	1440	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Special Characteristics

U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Features

Color Stability, High Gloss

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa