

Product Texts

50% Glass Reinforced, Applications with extremely narrow tolerances

ISO 1043 PET-GF50

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	18500	MPa	ISO 527
^[C] Stress at break	205	MPa	ISO 527
^[C] Strain at break	1.7	%	ISO 527
^[C] Charpy impact strength, +23°C	65	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	60	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	8.5	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	8.5	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	255	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	232	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	250	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	13	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	48	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	3.8	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.5	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	20	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	110	E-4	IEC 62631-2-1
^[C] Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.3	%	Sim. to ISO 62
^[C] Humidity absorption	0.12	%	Sim. to ISO 62
^[C] Density	1800	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Additives

Release agent

Delivery form

Pellets

Regional Availability

Europe

Other text information

Injection molding

- [Injection Molding Recommendations](#)
- [Steel recommendations for molds screws and barrels](#)
- [Supporting document for Stanyl quality processing](#)