

Product Texts

50% Glass Reinforced, Heat Stabilized

ISO 1043 PA66-GF50

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	10 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
^[C] Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.2 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	16000 / 11500	MPa	ISO 527
^[C] Stress at break	240 / 170	MPa	ISO 527
^[C] Strain at break	2.7 / 3.9	%	ISO 527
^[C] Charpy impact strength, +23°C	90 / 94	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	97 / 101	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	16 / 21	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	14 / 14	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	260 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	253 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	260 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	20 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	60 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	4.2 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.2 / *	%	Sim. to ISO 62
^[C] Density	1570 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Delivery form

Pellets

Regional Availability

North America, Europe, Asia Pacific

Additives

Release agent

Other text information**Injection molding**[Injection Molding Recommendations](#)[Steel recommendations for molds screws and barrels](#)[Trouble shooting guideline for injection molding](#)