

Product Texts

20% Glass Reinforced, Flame Retardant

ISO 1043 PA6-GF20 FR(17)

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.1 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	9200 / -	MPa	ISO 527
^[C] Stress at break	135 / -	MPa	ISO 527
^[C] Strain at break	2.1 / -	%	ISO 527
^[C] Charpy impact strength, +23°C	38 / 55	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	9 / 11	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	205 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	220 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	30 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	70 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 1MHz	4 / -	-	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	200 / -	E-4	IEC 62631-2-1
^[C] Volume resistivity	8E12 / -	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 8E12	Ohm	IEC 62631-3-2
^[C] Electric strength	23 / -	kV/mm	IEC 60243-1
^[C] Comparative tracking index	225 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Humidity absorption	1.5 / *	%	Sim. to ISO 62
^[C] Density	1540 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant

Delivery form

Pellets, Black, Natural Color

Regional Availability

Asia Pacific

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

[Trouble shooting guideline for injection molding](#)