

Product Texts

20% Glass Reinforced

ISO 1043 PA6-GF20

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.1 / *	%	ISO 294-4, 2577
^[C] Density of melt	1090	kg/m ³	-
^[C] Thermal conductivity of melt	0.25	W/(m K)	-
^[C] Spec. heat capacity of melt	2340	J/(kg K)	-
^[C] Eff. thermal diffusivity	9.83E-8	m ² /s	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	7300 / 4300	MPa	ISO 527
^[C] Stress at break	145 / 85	MPa	ISO 527
^[C] Strain at break	3.5 / 10	%	ISO 527
^[C] Charpy impact strength, +23°C	65 / -	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	55 / -	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	10 / -	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	8 / -	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	195 / *	°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	30 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	90 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
Yellow Card available	yes / *	-	-
^[C] Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3.0 / *	mm	-
Yellow Card available	yes / *	-	-

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	7.2 / *	%	Sim. to ISO 62
^[C] Humidity absorption	2.15 / *	%	Sim. to ISO 62
^[C] Density	1270 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Delivery form

Pellets

Other text information**Injection molding**

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[Injection Molding Recommendations](#)

[Steel recommendations for molds screws and barrels](#)

[Trouble shooting guideline for injection molding](#)