

Product Texts

45% Glass Reinforced, Heat Stabilized, Injection Molding

ISO 1043 PA6-GF45

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	3 / *	cm ³ /10min	ISO 1133
Temperature	250 / *	°C	-
Load	2.16 / *	kg	-
^[C] Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	13600 / 9000	MPa	ISO 527
^[C] Stress at break	220 / 150	MPa	ISO 527
^[C] Strain at break	3 / 5	%	ISO 527
^[C] Charpy impact strength, +23°C	110 / 120	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	18 / 27	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	209 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	220 / *	°C	ISO 75-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	5 / -	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	4 / -	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	280 / -	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	240 / -	E-4	IEC 62631-2-1
^[C] Volume resistivity	2E12 / -	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / 3E13	Ohm	IEC 62631-3-2
^[C] Electric strength	27 / -	kV/mm	IEC 60243-1
^[C] Comparative tracking index	400 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Humidity absorption	1.5 / *	%	Sim. to ISO 62
^[C] Density	1490 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, Black, Natural Color

Additives

Release agent

Special Characteristics

Heat stabilized or stable to heat

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](#)