

Product Texts

Injection Molding, 50% Glass Reinforced, Heat Stabilized, Improved flow, Recycled Content

ISO 1043 PA6-GF50

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.6 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	16200 / 10000	MPa	ISO 527
^[C] Stress at break	215 / 140	MPa	ISO 527
^[C] Strain at break	2.7 / 3.5	%	ISO 527
^[C] Charpy impact strength, +23°C	100 / 85	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	95 / 85	kJ/m ²	ISO 179/1eU
^[C] Puncture - maximum force, +23°C	1180 / -	N	ISO 6603-2
^[C] Puncture - maximum force, -30°C	1000 / -	N	ISO 6603-2
^[C] Puncture energy, +23°C	4.3 / -	J	ISO 6603-2
^[C] Puncture energy, -30°C	3.4 / -	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	222 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	210 / *	°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	12 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	90 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	4.7 / 12.9	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	4.2 / 4.8	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	135 / 2620	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	170 / 774	E-4	IEC 62631-2-1
^[C] Volume resistivity	7E12 / 4E9	Ohm*m	IEC 62631-3-1
^[C] Electric strength	35 / 34	kV/mm	IEC 60243-1
^[C] Comparative tracking index	400 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	5 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.5 / *	%	Sim. to ISO 62
^[C] Density	1570 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
^[C] Injection Molding, melt temperature	280	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Delivery form

Pellets

Certifications

Recycled Resin Content

Additives

Release agent

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information**Injection molding**

PREPROCESSING

Residual moisture content: 0.03 - 0.12%

Drying temperature dry air dryer: 80 °C

Drying time dry air dryer 2 - 6 h

PROCESSING

Melt temperature (Tmin - Tmax): 270 - 290 °C

Mold temperature: 80 - 120 °C