

**Product Texts**

Injection Molding, 60% Glass Reinforced, Heat Stabilized, Improved flow, Recycled Content

ISO 1043 PA6-GF60

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	0.5 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	20200 / 13000	MPa	ISO 527
<sup>[C]</sup> Stress at break	215 / 140	MPa	ISO 527
<sup>[C]</sup> Strain at break	2.3 / 2.8	%	ISO 527
Flexural modulus, 23°C	18500 / 14000	MPa	ISO 178
Flexural strength	350 / 230	MPa	ISO 178
<sup>[C]</sup> Charpy impact strength, +23°C	88 / -	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	15 / -	kJ/m <sup>2</sup>	ISO 179/1eA
Izod impact strength, +23°C	80 / 75	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C	15 / -	kJ/m <sup>2</sup>	ISO 180/1A
<sup>[C]</sup> Puncture - maximum force, +23°C	1100 / -	N	ISO 6603-2
<sup>[C]</sup> Puncture - maximum force, -30°C	950 / -	N	ISO 6603-2
<sup>[C]</sup> Puncture energy, +23°C	4.2 / -	J	ISO 6603-2
<sup>[C]</sup> Puncture energy, -30°C	3.4 / -	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	221 / *	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	208 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	217 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	11 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	85 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Density	1690 / -	kg/m <sup>3</sup>	ISO 1183
Bulk density	760	kg/m <sup>3</sup>	-

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Injection Molding, melt temperature	280	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 6	h	-
Processing humidity	≤0.15	%	-
Melt temperature	270 - 290	°C	-
Mold temperature	80 - 120	°C	-

**Characteristics**

**Processing**

Injection Molding

**Delivery form**

Pellets

**Special Characteristics**

Heat stabilized or stable to heat

**Features**

Thermal Stability

**Certifications**

Recycled Resin Content, ISCC Plus

**Regional Availability**

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

**Other text information****Injection molding**

## PREPROCESSING

Residual moisture content: 0.05 - 0.15%

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