

**Product Texts**

50% long glass fibre reinforced polyamide 6.  
For moulded parts with high requirements to impact, stiffness  
and flexural strength. Granulate length 10 to 14 mm.

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>16000 / 10500</b>	MPa	ISO 527
Stress at break	<b>250 / 162</b>	MPa	ISO 527
Strain at break	<b>2.2 / 2.5</b>	%	ISO 527
Charpy impact strength, +23°C	<b>90 / 90</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	<b>85 / -</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>30 / 30</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	<b>32 / -</b>	kJ/m <sup>2</sup>	ISO 179/1eA

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melting temperature, 10°C/min	<b>220 / *</b>	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	<b>220 / *</b>	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	<b>HB / *</b>	class	IEC 60695-11-10
Thickness tested	<b>1.6 / *</b>	mm	-

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	<b>4.5 / *</b>	%	Sim. to ISO 62
Humidity absorption	<b>1.4 / *</b>	%	Sim. to ISO 62
Density	<b>1560 / -</b>	kg/m <sup>3</sup>	ISO 1183

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>80</b>	°C	-
Pre-drying - Time	<b>4 - 8</b>	h	-
Processing humidity	<b>≤0.1</b>	%	-
Mold temperature	<b>60 - 100</b>	°C	-
Feed temperature	<b>80 - 100</b>	°C	-
Zone 1	<b>270 - 290</b>	°C	-
Nozzle temperature	<b>265 - 285</b>	°C	-
Maximum residence time	<b>10</b>	min	-

**Characteristics****Processing**

Injection Molding

**Features**

Long fiber reinforced

**Delivery form**

Pellets

**Regional Availability**

Europe

**Special Characteristics**

High impact or impact modified