

**Product Texts**

BERGAMID B70G50, PA6 reinforced  
50% glass fibre, general-purpose injection molding grade

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>12000 / 15000</b>	MPa	ISO 527
Stress at break	<b>160 / 220</b>	MPa	ISO 527
Strain at break	<b>3.5 / 3</b>	%	ISO 527
Charpy impact strength, +23°C	<b>110 / 100</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	<b>- / 90</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>30 / 22</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	<b>- / 17</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>223 / *</b>	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	<b>216 / *</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>220 / *</b>	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	<b>13 / *</b>	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	<b>55 / *</b>	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	<b>HB / *</b>	class	IEC 60695-11-10
Thickness tested	<b>1.6 / *</b>	mm	-
Burning behav. at thickness h	<b>HB / *</b>	class	IEC 60695-11-10
Thickness tested	<b>0.8 / *</b>	mm	-

<b>Electrical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Relative permittivity, 1MHz	<b>6.3 / 4.2</b>	-	IEC 62631-2-1
Dissipation factor, 1MHz	<b>1400 / 140</b>	E-4	IEC 62631-2-1
Volume resistivity	<b>1E10 / 1E13</b>	Ohm*m	IEC 62631-3-1
Surface resistivity	<b>* / 1E10</b>	Ohm	IEC 62631-3-2
Electric strength	<b>80 / 90</b>	kV/mm	IEC 60243-1
Comparative tracking index	<b>500 / -</b>	-	IEC 60112

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	<b>4.8 / *</b>	%	Sim. to ISO 62
Humidity absorption	<b>1.5 / *</b>	%	Sim. to ISO 62
Density	<b>- / 1550</b>	kg/m <sup>3</sup>	ISO 1183

<b>Material specific properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Viscosity number	<b>140 / *</b>	cm <sup>3</sup> /g	ISO 307, 1157, 1628

<b>Test specimen production</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Injection Molding, melt temperature	<b>270</b>	°C	ISO 294
Injection Molding, mold temperature	<b>80</b>	°C	ISO 294

**Characteristics****Processing**

Injection Molding

**Regional Availability**

Europe

**Delivery form**

Pellets

**Other text information**

**Injection Molding**

PREPROCESSING

Max. Water Content 0,1%

Pre-Drying: 80°C 4 Hours

PROCESSING

Melt Temperature 270-290°C

Mould Temperature 80-90°C