

**Product Texts**

BERGAMID B70 NATUR 50, PA6 unreinforced,  
general-purpose injection molding grade with very good flow properties,  
external lubricant, for technical applications thin wall thickness

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	1100 / 3000	MPa	ISO 527
Yield stress	50 / 80	MPa	ISO 527
Yield strain	22 / 4	%	ISO 527
Nominal strain at break	>50 / 20	%	ISO 527
Charpy impact strength, +23°C	N / N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	N / N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	60 / 8	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	- / 5	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	223 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	65 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	170 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	85 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	82 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	-
Burning behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-

<b>Electrical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Relative permittivity, 1MHz	7 / 3.7	-	IEC 62631-2-1
Dissipation factor, 1MHz	3000 / 230	E-4	IEC 62631-2-1
Volume resistivity	1E10 / 1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E10	Ohm	IEC 62631-3-2
Electric strength	60 / 100	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	9.5 / *	%	Sim. to ISO 62
Humidity absorption	3 / *	%	Sim. to ISO 62
Density	- / 1130	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	150 / *	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	250	°C	ISO 294
Injection Molding, mold temperature	40	°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 250-270°C

Mould Temperature 40-80°C