

Product Texts

BERGAMID A70MI30, PA66 reinforced
30% minerals, general-purpose injection molding grade
for rigid, tough and dimensionally stable technical parts

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3500 / 5500	MPa	ISO 527
Stress at break	55 / 75	MPa	ISO 527
Strain at break	16 / 10	%	ISO 527
Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	9 / 7	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	7 / 5	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	261 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	110 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	190 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	60 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	60 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	-
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	5.1 / 3.6	-	IEC 62631-2-1
Dissipation factor, 1MHz	2000 / 250	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 / 85	kV/mm	IEC 60243-1
Comparative tracking index	500 / -	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	6 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	- / 1370	kg/m ³	ISO 1183

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

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	280	°C	ISO 294
Injection Molding, mold temperature	80	°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 280-300°C

Mould Temperature 80-90°C