

Product Texts

BERGAMID A70C10, PA66 reinforced
10% carbon fibre, general-purpose injection molding grades

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	9000 / 12000	MPa	ISO 527
Stress at break	120 / 200	MPa	ISO 527
Strain at break	8 / 4	%	ISO 527
Charpy impact strength, +23°C	55 / 45	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	- / 35	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	13 / 10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	- / 6	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	245 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	250 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	25 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	75 / *	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	-

Other properties	dry / cond	Unit	Test Standard
Water absorption	7.7 / *	%	Sim. to ISO 62
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	- / 1180	kg/m ³	ISO 1183

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	150 / *	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

Special Characteristics

Increased electrical conductivity, Anti-static

Delivery form

Pellets

Regional Availability

Europe

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