

BERGAMID® A70GK20 - PA - PolyOne Th. Bergmann GmbH

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Material Data Center offers the following datasheet for the requested product:

BERGAMID® A70GK20 | PA66-GB20 | PolyOne Engineered Materials Europe

Mechanical properties	dry / cond	Unit	Test Standard
CAMPUS/ISO Data			
Tensile Modulus	4500 / 1900	MPa	ISO 527-1/-2
Stress at break	80 / 60	MPa	ISO 527-1/-2
Strain at break	5 / 7	%	ISO 527-1/-2
Charpy impact strength (+23°C)	30 / 45	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4 / 7	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	3 / 3	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
CAMPUS/ISO Data			
Melting temperature (10°C/min)	261 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	105 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	190 / *	°C	ISO 75-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	IEC 60695-11-10
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	IEC 60695-11-10

Electrical properties	dry / cond	Unit	Test Standard
CAMPUS/ISO Data			
Relative permittivity (1 MHz)	3.6 / 5.1	-	IEC 60250
Dissipation factor (1 MHz)	300 / 2000	E-4	IEC 60250
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 60093
Surface resistivity	* / 1E10	Ohm	IEC 60093
Electric strength	60 / 40	kV/mm	IEC 60243-1
Comparative tracking index	- / 500	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
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CAMPUS/ISO Data

Water absorption	6.8 / *	%	Sim. to ISO 62
Humidity absorption	2.2 / *	%	Sim. to ISO 62
Density	1290 / -	kg/m ³	ISO 1183

Material specific properties dry / cond Unit Test Standard

CAMPUS/ISO Data

Viscosity number	150 / *	cm ³ /g	ISO 307, 1157, 1628
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Test specimen production Value Unit Test Standard

CAMPUS/ISO Data

Injection Molding, melt temperature	280	°C	ISO 294
mold temperature	80	°C	ISO 10724

Characteristic

Regional Availability

Europe

Processing

Injection Molding

Delivery Form

Pellets

Processing

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