

Product Texts

BERGAMID A700/750, PA66 unreinforced
 general-purpose injection molding grades
 different viscosities available, flame class UL94: V-2
 UL-listed ALL COLORS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	1600 / 3200	MPa	ISO 527
Yield stress	60 / 80	MPa	ISO 527
Yield strain	25 / 4.5	%	ISO 527
Nominal strain at break	>50 / 22	%	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	25 / 6	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	- / 4	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	80 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	220 / *	°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	-
Yellow Card available	yes / *	-	-
Burning behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-
Yellow Card available	yes / *	-	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	5 / 3.6	-	IEC 62631-2-1
Dissipation factor, 1MHz	2000 / 260	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	80 / 120	kV/mm	IEC 60243-1
Comparative tracking index	- / 600	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	8.5 / *	%	Sim. to ISO 62
Humidity absorption	2.8 / *	%	Sim. to ISO 62
Density	- / 1130	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	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 with dry-air dryer

PROCESSING

Melt temperature 270 - 290°C

Mould temperature 40 - 80°C

POSTPROCESSING

Back pressure 50 - 100 MPa