

**Product Texts**

BERGAMID A700G30U-SO, PA66 reinforced  
30% glass fibre, flame retardant based on red phosphorus,  
UL-listing

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	7200 / 10000	MPa	ISO 527
Stress at break	120 / 170	MPa	ISO 527
Strain at break	4 / 3	%	ISO 527
Charpy impact strength, +23°C	70 / 65	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	75 / 60	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	17 / 12	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	12 / 10	kJ/m <sup>2</sup>	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Melting temperature, 10°C/min	261 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	250 / *	°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	18 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	65 / *	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	3.0 / *	mm	-
Yellow Card available	yes / *	-	-

Electrical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Relative permittivity, 1MHz	5.5 / 3.5	-	IEC 62631-2-1
Dissipation factor, 1MHz	1600 / 150	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	40 / 70	kV/mm	IEC 60243-1
Comparative tracking index	400 / -	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Water absorption	5.1 / *	%	Sim. to ISO 62
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	- / 1430	kg/m <sup>3</sup>	ISO 1183

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

Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
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