

**Product Texts**

BERGAMID B700G45H, PA6 reinforced  
45% glass fibre, heat stabilized.  
UL-listing

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	10000 / 13000	MPa	ISO 527
Stress at break	150 / 210	MPa	ISO 527
Strain at break	3.5 / 3	%	ISO 527
Charpy impact strength, +23°C	110 / 100	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	- / 90	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	30 / 21	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	- / 17	kJ/m <sup>2</sup>	ISO 179/1eA

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melting temperature, 10°C/min	223 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	213 / *	°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	14 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	55 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
Yellow Card available	yes / *	-	-
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.7 / *	mm	-
Yellow Card available	yes / *	-	-

<b>Electrical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Relative permittivity, 1MHz	6.5 / 3.9	-	IEC 62631-2-1
Dissipation factor, 1MHz	1800 / 180	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 / 90	kV/mm	IEC 60243-1
Comparative tracking index	500 / -	-	IEC 60112

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	5.2 / *	%	Sim. to ISO 62
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	- / 1510	kg/m <sup>3</sup>	ISO 1183

<b>Material specific properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Viscosity number	150 / *	cm <sup>3</sup> /g	ISO 307, 1157, 1628

<b>Test specimen production</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Injection Molding, melt temperature	270	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Heat stabilized or stable to heat

**BERGAMID® B700G45H**

PA6-GF45

Avient Corporation

**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 270-290°C

Mould Temperature 80-90°C