

**BERGAMID® A700G10H**

PA66-GF10

Avient Corporation

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>4000 / 5500</b>	MPa	ISO 527
Stress at break	<b>75 / 125</b>	MPa	ISO 527
Strain at break	<b>10 / 3</b>	%	ISO 527
Charpy impact strength, +23°C	<b>70 / 40</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	<b>55 / 35</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>10 / 8</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	<b>9 / 7</b>	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	<b>261 / *</b>	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	<b>250 / *</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>250 / *</b>	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	<b>HB / *</b>	class	IEC 60695-11-10
Thickness tested	<b>1.5 / *</b>	mm	-
Yellow Card available	<b>yes / *</b>	-	-
Burning behav. at thickness h	<b>HB / *</b>	class	IEC 60695-11-10
Thickness tested	<b>0.7 / *</b>	mm	-
Yellow Card available	<b>yes / *</b>	-	-

<b>Electrical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Relative permittivity, 1MHz	<b>5.5 / 3.7</b>	-	IEC 62631-2-1
Dissipation factor, 1MHz	<b>1600 / 150</b>	E-4	IEC 62631-2-1
Volume resistivity	<b>1E10 / 1E13</b>	Ohm*m	IEC 62631-3-1
Surface resistivity	<b>* / 1E10</b>	Ohm	IEC 62631-3-2
Electric strength	<b>80 / 90</b>	kV/mm	IEC 60243-1
Comparative tracking index	<b>500 / -</b>	-	IEC 60112

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	<b>7.7 / *</b>	%	Sim. to ISO 62
Humidity absorption	<b>2.5 / *</b>	%	Sim. to ISO 62
Density	<b>- / 1190</b>	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	<b>140 / *</b>	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	<b>280</b>	°C	ISO 294
Injection Molding, mold temperature	<b>80</b>	°C	ISO 294

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

Heat stabilized or stable to heat

**Delivery form**

Pellets

**Regional Availability**

Europe

**Other text information****Injection Molding**

PREPROCESSING

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Max. Water Content 0,1%  
Pre-Drying: 80°C 4 Hours  
PROCESSING  
Melt Temperature 280-300°C  
Mould Temperature 80-90°C