

**PENTAMID A GV30 E H**

PA66-GF30

Pentac Polymer GmbH

<b>Processing/Physical Characteristics</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Molding shrinkage, parallel	<b>0.4 / *</b>	%	ISO 294-4, 2577
Molding shrinkage, normal	<b>0.7 / *</b>	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	<b>8600 / 5600</b>	MPa	ISO 527
Stress at break	<b>140 / 110</b>	MPa	ISO 527
Strain at break	<b>3.5 / 6</b>	%	ISO 527
Charpy impact strength, +23°C	<b>70 / 85</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>20 / 25</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
<b>ISO Data</b>			
Melting temperature, 10°C/min	<b>260 / *</b>	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	<b>190 / *</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>235 / *</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>1.6 / *</b>	mm	-
<b>Other properties</b>			
<b>ISO Data</b>			
Water absorption	<b>4.9 / *</b>	%	Sim. to ISO 62
Humidity absorption	<b>1.4 / *</b>	%	Sim. to ISO 62
Density	<b>1320 / -</b>	kg/m <sup>3</sup>	ISO 1183
<b>Material specific properties</b>			
<b>ISO Data</b>			
Viscosity number	<b>140 / *</b>	cm <sup>3</sup> /g	ISO 307, 1157, 1628
<b>Processing Recommendation Injection Molding</b>			
<b>ISO Data</b>			
Pre-drying - Temperature	<b>80</b>	°C	-
Pre-drying - Time	<b>3</b>	h	-
Processing humidity	<b>≤0.13</b>	%	-
Mold temperature	<b>60 - 100</b>	°C	-
Feed temperature	<b>80</b>	°C	-
Zone 1	<b>270</b>	°C	-
Zone 2	<b>280</b>	°C	-
Zone 3	<b>285</b>	°C	-
Zone 4	<b>290</b>	°C	-
Zone 5	<b>285</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Certifications**

RoHS compliant

**Delivery form**

Pellets

**Applications**

Sports Equipment

**Special Characteristics**

High impact or impact modified, Heat stabilized or stable to heat

**Regional Availability**

Europe