

**PENTAMID AHS GV50 H2 black**  
(PA66+PA6T/XT)-GF50

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	0.1 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5 / *	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	18900 / -	MPa	ISO 527
Stress at break	250 / 230	MPa	ISO 527
Strain at break	2.2 / 2.3	%	ISO 527
Charpy impact strength, +23°C	90 / 95	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	18 / 19	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
<b>ISO Data</b>			
Melting temperature, 10°C/min	265 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	230 / *	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	-
<b>Other properties</b>			
<b>dry / cond</b>			
Water absorption	4.2 / *	%	Sim. to ISO 62
Humidity absorption	1.4 / *	%	Sim. to ISO 62
Density	1570 / -	kg/m <sup>3</sup>	ISO 1183

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 12	h	-
Processing humidity	≤0.08	%	-
Mold temperature	90 - 120	°C	-
Feed temperature	80	°C	-
Zone 1	285	°C	-
Zone 2	290	°C	-
Zone 3	295	°C	-
Zone 4	300	°C	-
Zone 5	295	°C	-

**Characteristics**

**Processing**

Injection Molding

**Delivery form**

Pellets, Black

**Special Characteristics**

Heat stabilized or stable to heat

**Certifications**

RoHS compliant

**Regional Availability**

Europe