

PENTAMID AHT1 GV50 H2 black

PA6T/XT-GF50

Pentac Polymer GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6 / *	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	18500 / 17800	MPa	ISO 527
Stress at break	245 / 240	MPa	ISO 527
Strain at break	1.9 / 2	%	ISO 527
Charpy impact strength, +23°C	80 / 85	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	11 / 12	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Melting temperature, 10°C/min	325 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	310 / *	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	-
Other properties			
ISO Data			
Water absorption	4 / *	%	Sim. to ISO 62
Humidity absorption	1.4 / *	%	Sim. to ISO 62
Density	1620 / -	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 12	h	-
Processing humidity	≤0.05	%	-
Mold temperature	125 - 160	°C	-
Feed temperature	80	°C	-
Zone 1	325	°C	-
Zone 2	325	°C	-
Zone 3	325	°C	-
Zone 4	335	°C	-
Zone 5	320	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, Black

Special Characteristics

Heat stabilized or stable to heat

Certifications

RoHS compliant

Regional Availability

Europe