

PENTAMID AHT H1 black

(PA46+PA66)

Pentac Polymer GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	2.0 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	2.1 / *	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	3000 / 1000	MPa	ISO 527
Yield stress	100 / 55	MPa	ISO 527
Yield strain	15 / 25	%	ISO 527
Flexural modulus, 23°C	3250 / -	MPa	ISO 178
Flexural strength	125 / -	MPa	ISO 178
Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	10 / 30	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Melting temperature, 10°C/min	285 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	160 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	270 / *	°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	10 / *	%	Sim. to ISO 62
Humidity absorption	3.6 / *	%	Sim. to ISO 62
Density	1180 / -	kg/m ³	ISO 1183
Material specific properties			
ISO Data			
Viscosity number	140 / *	cm ³ /g	ISO 307, 1157, 1628
Processing Recommendation Injection Molding			
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 12	h	-
Processing humidity	≤0.09	%	-
Mold temperature	80 - 120	°C	-
Feed temperature	80	°C	-
Zone 1	295	°C	-
Zone 2	305	°C	-
Zone 3	310	°C	-
Zone 4	315	°C	-
Zone 5	310	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, Black

Special Characteristics

Heat stabilized or stable to heat

Chemical Resistance

Oil Resistance

Certifications

RoHS compliant

Regional Availability

Europe