

PENTAMID AHT GV40 H1 black
(PA46+PA66)-GF40

Pentac Polymer GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.5 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	13000 / 6900	MPa	ISO 527
Stress at break	210 / 120	MPa	ISO 527
Strain at break	3 / 6	%	ISO 527
Charpy impact strength, +23°C	85 / 85	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	12 / 22	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	285 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	270 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	280 / *	°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	dry / cond	Unit	Test Standard
Water absorption	6.3 / *	%	Sim. to ISO 62
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1510 / -	kg/m ³	ISO 1183

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	140 / *	cm ³ /g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
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

Chemical Resistance

Oil Resistance

Delivery form

Pellets, Black

Certifications

RoHS compliant

Special Characteristics

Heat stabilized or stable to heat

Regional Availability

Europe