

PENTAMID B GV50 E H natural

PA6-GF50

Pentac Polymer GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	6.0 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	14800 / 8000	MPa	ISO 527
Stress at break	170 / 130	MPa	ISO 527
Strain at break	2.8 / 5	%	ISO 527
Charpy impact strength, +23°C	90 / 100	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	25 / 32	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	100 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	200 / *	°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	5.8 / *	%	Sim. to ISO 62
Humidity absorption	1.7 / *	%	Sim. to ISO 62
Density	1500 / -	kg/m ³	ISO 1183

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	145 / *	cm ³ /g	ISO 307, 1157, 1628

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	3	h	-
Processing humidity	≤0.13	%	-
Mold temperature	60 - 100	°C	-
Feed temperature	80	°C	-
Zone 1	260	°C	-
Zone 2	270	°C	-
Zone 3	275	°C	-
Zone 4	280	°C	-
Zone 5	275	°C	-

Characteristics**Processing**

Injection Molding

Certifications

RoHS compliant

Delivery form

Pellets, Natural Color

Applications

Sports Equipment

Special Characteristics

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

Regional Availability

Europe