

PENTAMID AB GV15 H

PA66/6-GF15

Pentac Polymer GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.7 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	5900 / 3400	MPa	ISO 527
Stress at break	125 / 75	MPa	ISO 527
Strain at break	3.5 / 12	%	ISO 527
Flexural modulus, 23°C	5300 / -	MPa	ISO 178
Flexural strength	175 / -	MPa	ISO 178
Charpy impact strength, +23°C	60 / 75	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	10 / 13	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	255 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	200 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	240 / *	°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	7.2 / *	%	Sim. to ISO 62
Humidity absorption	2.2 / *	%	Sim. to ISO 62
Density	1230 / -	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	3	h	-
Processing humidity	≤0.13	%	-
Mold temperature	60 - 100	°C	-
Feed temperature	80	°C	-
Zone 1	265	°C	-
Zone 2	275	°C	-
Zone 3	280	°C	-
Zone 4	285	°C	-
Zone 5	280	°C	-

Characteristics**Processing**

Injection Molding

Certifications

RoHS compliant

Delivery form

Pellets

Regional Availability

Europe

Special Characteristics

Heat stabilized or stable to heat