

PENTAMID B S GV30 H

PA6-GF30

Pentac Polymer GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	45 / *	cm ³ /10min	ISO 1133
Temperature	275 / *	°C	-
Load	5 / *	kg	-
Molding shrinkage, parallel	0.5 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7 / *	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	9700 / 5500	MPa	ISO 527
Stress at break	170 / 120	MPa	ISO 527
Strain at break	3.4 / 6	%	ISO 527
Charpy impact strength, +23°C	80 / 95	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	12 / 21	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Melting temperature, 10°C/min	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	210 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	215 / *	°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	6.7 / *	%	Sim. to ISO 62
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1350 / -	kg/m ³	ISO 1183
Material specific properties			
ISO Data			
Viscosity number	125 / *	cm ³ /g	ISO 307, 1157, 1628
Processing Recommendation Injection Molding			
ISO Data			
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

Regional Availability

Europe

Special Characteristics

Heat stabilized or stable to heat