

PENTALLOY BP GFB16 H black

(PA6+PP)-(GF+GB)16

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	1.0 / *	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	5300 / 4000	MPa	ISO 527
Stress at break	95 / 75	MPa	ISO 527
Strain at break	3 / 4.5	%	ISO 527
Charpy impact strength, +23°C	50 / 55	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	7 / 8	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	180 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	210 / *	°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			
Water absorption	4.4 / *	%	Sim. to ISO 62
Humidity absorption	1.3 / *	%	Sim. to ISO 62
Density	1080 / -	kg/m ³	ISO 1183

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	250	°C	-
Zone 2	255	°C	-
Zone 3	260	°C	-
Zone 4	270	°C	-
Zone 5	260	°C	-

Characteristics**Processing**

Injection Molding

Certifications

RoHS compliant

Delivery form

Pellets, Black

Applications

Automotive, Encapsulation

Special Characteristics

Heat stabilized or stable to heat

Regional Availability

Europe