

PENTALLOY BS GV10 H black

(PA6+ABS)-GF10

Pentac Polymer GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.6 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	3850 / 2900	MPa	ISO 527
Stress at break	65 / 50	MPa	ISO 527
Strain at break	4.5 / 7	%	ISO 527
Charpy impact strength, +23°C	50 / 65	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	13 / 20	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	110 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	125 / *	°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	3.2 / *	%	Sim. to ISO 62
Humidity absorption	1.2 / *	%	Sim. to ISO 62
Density	1150 / -	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	255	°C	-
Zone 2	260	°C	-
Zone 3	265	°C	-
Zone 4	270	°C	-
Zone 5	265	°C	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets, Black

Special Characteristics

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

Features

Acoustical Barrier Properties

Chemical Resistance

General Chemical Resistance

Certifications

RoHS compliant

Applications

Automotive, Electrical and Electronical, Encapsulation, Sports Equipment

Regional Availability

Europe