

PENTALLOY BS H natural

(PA6+ABS)

Pentac Polymer GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.4 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.6 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	1850 / 1350	MPa	ISO 527
Yield stress	50 / 43	MPa	ISO 527
Yield strain	3.5 / 12	%	ISO 527
Strain at break	70 / 90	%	ISO 527
Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	85 / 90	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	80 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	110 / *	°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	3.5 / *	%	Sim. to ISO 62
Humidity absorption	1.4 / *	%	Sim. to ISO 62
Density	1070 / -	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, Natural Color

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