

Technical Data Sheet



Product:	PENTALLOY BP H natural	
Description:	PA6+PP-alloy, unreinforced, heat stabilised, improved chemical resistance	Product-No.: 6100.004
DIN EN ISO designation:	PA 6+PP,,MHR,S14-030	

Properties	Standard	Unit	d.a.m.	cond.
------------	----------	------	--------	-------

General Properties

Density	ISO 1183	g/cm ³	1,04	
Viscosity Number	ISO 307	ml/g		
Water absorption (saturation)	ISO 62	%	5	
Humidity absorption (23°C/50%r.h.)	ISO 62	%	1,5	
Molding shrinkage parallel.	ISO 294-4	%	1,4	
Molding shrinkage normal	ISO 294-4	%	1,8	

Mechanical Properties

Tensile E-Modulus	ISO 527-2 (1 mm/min)	MPa	2800	1800
Tensile strength at yield	ISO 527-2 (50 mm/min)	MPa	65	50
Elongation at yield	ISO 527-2 (50 mm/min)	%	5	10
Strain at break	ISO 527-2 (5 mm/min)	%	40	>40
Flexural modulus	ISO 178	MPa		
Flexural strength at break	ISO 178	MPa		
Impact strength (Charpy @ +23°C)	ISO 179/1eU	kJ/m ²	n.b.	n.b.
Impact strength (Charpy @ -30°C)	ISO 179/1eU	kJ/m ²	n.b.	
Notched Impact strength (Charpy @ +23°C)	ISO 179/1eA	kJ/m ²	12	24
Notched Impact strength (Charpy @ -30°C)	ISO 179/1eA	kJ/m ²	6	

Thermal Properties

Melting point (DSC)	ISO 11357	°C	222	
Heat deflection temperature HDT/A	ISO 75 (1,80 MPa)	°C	75	
Heat deflection temperature HDT/B	ISO 75 (0,45 MPa)	°C	135	
Flammability class (UL 94)	ISO 1210 (1,6 mm)	rating	HB	
Flammability class (UL 94)	ISO 1210 (3,2 mm)	rating	HB	

Electrical Properties

Dielectric coefficient @ 1MHz	IEC 60250	--		
Dielectric strength	IEC 60243-1	kV/mm		
Comparative tracking index	IEC 60112 (CTI)	--		

Disclaimer ! Although all statements, information, and data given herein are believed to be accurate, they are presented without guaranty, warranty, or responsibility of any kind, express or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not suggestion to infringe any patent. The user should not assume that all safety measures are indicated, or that other measures are indicated, or that other measures may not be required.

PENTAC Polymer GmbH, Otto-Hahn-Str. 12, D-64823 Gross-Umstadt, Tel: +49 6078 9323-0, Fax -99, www.pentac.de

05.07.2018