

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.
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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)	--		

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