Technical Data Sheet

Product:	**PENTALLOY BP GVB16 H black**	
Description:	PA6+PP-alloy, glass fiber and glass bubbles reinforced, heat stabilised, improved chemical resistance	Product-No.: 6119.011
DIN EN ISO designation:	PA 6+PP,(GF+GB)16,MHRC,S14-050	

Properties	Standard	Unit	d.a.m.	cond.
General Properties				
Density	ISO 1183	g/cm³	1,08	
Viscosity Number	ISO 307	ml/g		
Water absorption (saturation)	ISO 62	%	4,4	
Humidity absorption (23ºC/50%r.h.)	ISO 62	%	1,3	
Molding shrinkage parallel.	ISO 294-4	%	0,7	
Molding shrinkage normal	ISO 294-4	%	1,0	
Mechanical Properties				
Tensile E-Modulus	ISO 527-2 (1 mm/min)	MPa	5300	4000
Stress at break	ISO 527-2 (5 mm/min)	MPa	95	75
Strain at break	ISO 527-2 (5 mm/min)	%	3	4,5
Flexural modulus	ISO 178	MPa		
Flexural strength at break	ISO 178	MPa		
Impact strength (Charpy @ +23°C)	ISO 179/1eU	kJ/m²	50	55
Impact strength (Charpy @ -30°C)	ISO 179/1eU	kJ/m²	35	
Notched Impact strength (Charpy @ +23°C)	ISO 179/1eA	kJ/m²	7	8
Notched Impact strength (Charpy @ -30°C)	ISO 179/1eA	kJ/m²	5	
Thermal Properties				
Melting point (DSC)	ISO 11357	°C	222	
Heat deflection temperature HDT/A	ISO 75 (1,80 MPa)	°C	180	
Heat deflection temparature HDT/B	ISO 75 (0,45 MPa)	°C	210	
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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