

Technical Data Sheet



Product:	PENTAMID B S GVB16 H2 R black	
Description:	low viscosity, high heat stabilized polyamide 6, glass fiber and glass bubble reinforced, recycle including	Product-No.: 6039.012
DIN EN ISO designation:	PA 6,(GF+GB)16 (R),MHRC,S12-050	

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

Density	ISO 1183	g/cm ³	1,16
Viscosity Number	ISO 307	ml/g	130
Water absorption (saturation)	ISO 62	%	7,8
Humidity absorption (23°C/50%r.h.)	ISO 62	%	2,3
Molding shrinkage parallel.	ISO 294-4	%	0,6
Molding shrinkage normal	ISO 294-4	%	0,9

Mechanical Properties

Tensile E-Modulus	ISO 527-2 (1 mm/min)	MPa	5700
Stress at break	ISO 527-2 (5 mm/min)	MPa	100
Strain at break	ISO 527-2 (5 mm/min)	%	2,6
Flexural modulus	ISO 178	MPa	
Flexural strength at break	ISO 178	MPa	
Impact strength (Charpy @ +23°C)	ISO 179/1eU	kJ/m ²	34
Impact strength (Charpy @ -30°C)	ISO 179/1eU	kJ/m ²	
Notched Impact strength (Charpy @ +23°C)	ISO 179/1eA	kJ/m ²	4
Notched Impact strength (Charpy @ -30°C)	ISO 179/1eA	kJ/m ²	

Thermal Properties

Melting point (DSC)	ISO 11357	°C	222
Heat deflection temperature HDT/A	ISO 75 (1,80 MPa)	°C	190
Heat deflection temperature HDT/B	ISO 75 (0,45 MPa)	°C	220
Flammability class (UL 94)	ISO 1210 (1,6 mm)	rating	
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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