

# Technical Data Sheet



Product:	<b>PENTAMID B S GVB16 H2 R black</b>	
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.
------------	----------	------	--------	-------

## General Properties

Density	ISO 1183	g/cm <sup>3</sup>	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 <sup>2</sup>	34	
Impact strength (Charpy @ -30°C)	ISO 179/1eU	kJ/m <sup>2</sup>		
Notched Impact strength (Charpy @ +23°C)	ISO 179/1eA	kJ/m <sup>2</sup>	4	
Notched Impact strength (Charpy @ -30°C)	ISO 179/1eA	kJ/m <sup>2</sup>		

## 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)	--		

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.