

# Technical Data Sheet



Product:	<b>PENTAMID B GV30 H RC black</b>	
Description:	Normal viscosity, heat stabilised polyamide 6, 30% glass fiber reinforced, ReCompound	Product-No.: 601909
DIN EN ISO designation:	PA 6,GF30,MHRC,S14-080	

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

Density	ISO 1183	g/cm <sup>3</sup>	1,36	
Viscosity Number	ISO 307	ml/g	130	
Water absorption (saturation)	ISO 62	%	6,4	
Humidity absorption (23°C/50%r.h.)	ISO 62	%	2	
Molding shrinkage parallel.	ISO 294-4	%	0,5	
Molding shrinkage normal	ISO 294-4	%	0,8	

## Mechanical Properties

Tensile E-Modulus	ISO 527-2 (1 mm/min)	MPa	7800	5300
Stress at break	ISO 527-2 (5 mm/min)	MPa	135	105
Strain at break	ISO 527-2 (5 mm/min)	%	3	7
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>	60	80
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>	8	12
Notched Impact strength (Charpy @ -30°C)	ISO 179/1eA	kJ/m <sup>2</sup>		

## Thermal Properties

Melting point (DSC)	ISO 11357	°C	220	
Heat deflection temperature HDT/A	ISO 75 (1,80 MPa)	°C	195	
Heat deflection temperature HDT/B	ISO 75 (0,45 MPa)	°C	215	
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	--	3,8	
Dielectric strength	IEC 60243-1	kV/mm	35	
Comparative tracking index	IEC 60112 (CTI)	--	500	

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