

Preliminary Technical Data Sheet



Product:	PENTAMID A CV30 H black	
Description:	Normal viscosity, heat stabilised polyamide 66, 30% carbon fiber reinforced	Product-No.: 6699.003
DIN EN ISO designation:	PA66, MHRC, 14-220 N, CF30	

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

Density	ISO 1183	g/cm ³	1,26
Viscosity Number	ISO 307	ml/g	140
Water absorption (saturation)	ISO 62	%	5,2
Humidity absorption (23°C/50%r.h.)	ISO 62	%	1,6
Molding shrinkage parallel.	ISO 294-4	%	0,15
Molding shrinkage normal	ISO 294-4	%	0,3

Mechanical Properties

Tensile E-Modulus	ISO 527-2 (1 mm/min)	MPa	24200
Stress at break	ISO 527-2 (5 mm/min)	MPa	195
Strain at break	ISO 527-2 (5 mm/min)	%	1,0
Flexural modulus	ISO 178	MPa	
Flexural strength at break	ISO 178	MPa	
Impact strength (Charpy @ +23°C)	ISO 179/1eU	kJ/m ²	40
Impact strength (Charpy @ -30°C)	ISO 179/1eU	kJ/m ²	
Notched Impact strength (Charpy @ +23°C)	ISO 179/1eA	kJ/m ²	6,2
Notched Impact strength (Charpy @ -30°C)	ISO 179/1eA	kJ/m ²	

Thermal Properties

Melting point (DSC)	ISO 11357	°C	260
Heat deflection temperature HDT/A	ISO 75 (1,80 MPa)	°C	250
Heat deflection temperature HDT/B	ISO 75 (0,45 MPa)	°C	255
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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