



Document	ISO Datasheet
Description	PA 6
Grade	DAFNEMID 6 A P06
Code	
Application	Injection moulding

30% glass fibers, very good stiffness, good impact resistance.

Properties	Method	Unit	Value
Physical			
Melt flow rate (235°C - 2,16 Kg)	ISO 1133	g/10'	9
Density at 23°C	ISO 1183	g/cm ³	1,36
Mould Shrinkage (%)	INTERNAL	%	0,2-0,5
Water absorption	ISO 62	%	2,1-2,3
Thermal			
Vicat A50	ISO 306	°C	220
Vicat B50	ISO 306	°C	210
Ball Pressure Test	IEC 60695-10-2	°C	165
Maximum service temperature	IEC 216	°C	105
HDT, A (1.80 MPa)	ISO 75/Af	°C	210
HDT, B (0.45 MPa)	ISO 75/Af	°C	220
Mechanical at 23 °C			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	8000
Flexural strenght (23°C - 2 mm/min)	ISO 178	MPa	250
Tensile Modulus (23°C - 1 mm/min)	ISO 527-2	MPa	9500
Tensile stress at break (23°C-5 mm/min)	ISO 527-2	MPa	175
Tensile elong. at break (23°C-5 mm/min)	ISO 527-2	%	3,0
Rockwell hardness (L scale)	ISO 2039-2		102
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m ²	12
Charpy notched impact strength (23°C)	ISO 179/1eA	KJ/m ²	12
Charpy unnotched impact strength (23°C)	ISO 179/1eU	KJ/m ²	75
Flammability			
Glow Wire Flammability Index GWFI (1,0 mm)	IEC 60695-2-12	°C	650

Glow Wire Flammability Index GWFI (3,0 mm)	IEC 60695-2-12	°C	650
GlowWire Ignition Temperature GWIT (1,0 mm)	IEC 60695-2-13	°C	675
GlowWire Ignition Temperature GWIT (3,0 mm)	IEC 60695-2-13	°C	675
Flammability class (0,8 mm)	UL94		HB
Flammability class (1,6 mm)	UL94		HB
Electrical			
Surface resistivity	IEC 60093	Ohm	1E12
Volume resistivity	IEC 60093	Ohm*m	1E13
Comparative tracking index CTI	IEC 60112	V	575
Processing Conditions			
Melt Temperature Range	ISO 294	°C	240-280
Mold Temperature Range	ISO 294	°C	80-100
Injection Velocity	ISO 294		MEDIUM
Drying Temperature		°C	80-100
Drying Time		Hour	3
Regulations compliance			
RoHS compliance status:	COMPLIANT		
EN71:			
UL listed file n°:	QMFZ2.E220931		
Water contact approvals.			
Food contact status:			

§ Moulding shrinkage is not an intrinsic property of plastics. It also depends on moulding parameters. The values reported have been calculated in the direction parallel to the flow in a 4.0 x 10.0 x 170 mm sample.

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