



Document	ISO Datasheet
Description	PPS
Grade	DAFNETEC PPS P08
Code	
Application	Injection moulding

40% glass fibers. Excellent heat and chemical resistance, inherently flame-retardant. High mechanical resistance at elevated temperature.

Properties	Method	Unit	Value
Physical			
Density at 23°C	ISO 1183	g/cm ³	1,66-1,68
Mould Shrinkage (%)	INTERNAL	%	0,2-0,4
Water absorption	ISO 62	%	0,02
Thermal			
Vicat B50	ISO 306	°C	255
Ball Pressure Test	IEC 60695-10-2	°C	>190
Thermal conductivity – through-plane	ISO 22007-2	W/(m*K)	0,33
HDT, A (1.80 MPa)	ISO 75/Af	°C	270
HDT, B (0.45 MPa)	ISO 75/Af	°C	280
Mechanical at 23 °C			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	15200
Flexural strenght (23°C - 2 mm/min)	ISO 178	MPa	260
Tensile stress at break (23°C-5 mm/min)	ISO 527-2	MPa	170
Tensile elong. at break (23°C-5 mm/min)	ISO 527-2	%	1,5
Rockwell hardness (L scale)	ISO 2039-2		108
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m ²	10
Izod unnotched impact strength (23°C)	ISO 180/1U	KJ/m ²	40
Flammability			
Glow Wire Flammability Index GWFI (1,0 mm)	IEC 60695-2-12	°C	960
Glow Wire Flammability Index GWFI (2,0 mm)	IEC 60695-2-12	°C	960
Glow Wire Ignition Temperature GWIT (1,0 mm)	IEC 60695-2-13	°C	875
Glow Wire Ignition Temperature GWIT (2,0 mm)	IEC 60695-2-13	°C	875

Flammability class (1,6 mm)	UL94		V0
Electrical			
Surface resistivity	IEC 60093	Ohm	7E15
Volume resistivity	IEC 60093	Ohm*m	2E14
Dielectric strength	IEC 60243	KV/mm	16
Comparative tracking index CTI	IEC 60112	V	125
Processing Conditions			
Melt Temperature Range	ISO 294	°C	295-345
Mold Temperature Range	ISO 294	°C	130-150
Injection Velocity	ISO 294		MEDIUM
Drying Temperature		°C	130-150
Drying Time		Hour	2-4
Regulations compliance			
RoHS compliance status:	COMPLIANT		
EN71:			
UL listed file n°:			
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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