Document	ISO Datasheet
Description	PP GF 30
Grade	DAFNELEN HP 605/SW
Code	
Application	Injection Moulding

30% glass fibers. Chemically coupled. Flame Retardant grade With halogens.

Properties	Method	Unit	Value
Physical			
Melt flow rate (230°C – 2,16 Kg)	ISO 1133	g/10'	4,0
Density at 23°C	ISO 1183	g/cm3	1,60
Mould Shrinkage (%)	INTERNAL	%	0,1
Water absorption	ISO 62	%	0,02
Thermal			
Vicat A50	ISO 306	°C	160
Vicat B50	ISO 306	°C	135
Ball Pressure Test	IEC 60695-10-2	°C	145
HDT, A (1.80 MPa)	ISO 75/Af	°C	145
HDT, B (0.45 MPa)	ISO 75/Af	°C	160
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	125
Tensile stress at yield (23°C-50 mm/min)	ISO 527-2	MPa	80
Tensile stress at break (23°C-50 mm/min)	ISO 527-2	%	5,0
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m^2	7
Charpy notched impact strength (23°C)	ISO 179/1eA	KJ/m^2	7
Charpy unnotched impact strength (23°C)	ISO 179/1eU	KJ/m^2	20
Rockwell hardness (R scale)	ISO 2039-2		105
Flammability			
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	825
Glow Wire Ignition Temperature GWIT (2,0 mm)	IEC 60695-2-13	°C	825

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Glow Wire Ignition Temperature GWIT (3,0 mm)	IEC 60695-2-13	°C	930
Flammability class (1,6 mm)	UL94		V0
Flammability class (3,2 mm)	UL94		V0
Electrical			
Comparative tracking index CTI	IEC 60112	V	600
Processing Conditions			
Melt Temperature Range	ISO 294	°C	200-230
Mold Temperature Range	ISO 294	°C	50-70
Injection Velocity	ISO 294		HIGH
Drying Temperature		°C	80-100
Drying Time		Hour	2
Regulations compliance			
RoHS compliance status:	COMPLIANT		
EN71:			
UL listed file nº:	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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