

Document	ISO Datasheet
Description	PC
Grade	DAFNELOY MA
Code	
Application	Electric housing, boxes and covers, sackets, plugs, light systems.

PC low viscosity, good mechanical and high heat resistance, for transparent and solid colors.

Properties	Method	Unit	Value
Physical			
Melt Flow Rate (300°C - 1,20 Kg)	ISO 1133	g/10'	20
Density at 23°C	ISO 1183	g/cm3	1,20
Mould Shrinkage (%)	INTERNAL	%	0,5-0,7
Water absorption	ISO 62	%	0,10
Thermal			
Vicat A50	ISO 306	°C	155
Vicat B50	ISO 306	°C	145
Ball Pressure Test	IEC 60695-10-2	°C	125
Maximum service temperature	IEC 216	°C	125
Short time temperature limit	IEC 216	°C	140
HDT, A (1.80 MPa)	ISO 75/Af	°C	125
HDT, B (0.45 MPa)	ISO 75/Af	°C	135
Mechanical at 23 °C			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	2300
Flexural strenght (23°C - 2 mm/min)	ISO 178	MPa	90
Tensile Modulus (23°C - 1 mm/min)	ISO 527-2	MPa	2300
Tensile stress at yield (23°C-50 mm/min)	ISO 527-2	MPa	60
Tensile stress at break (23°C-50 mm/min)	ISO 527-2	MPa	50
Tensile elong. at break (23°C-50 mm/min)	ISO 527-2	%	>50
Rockwell hardness (M scale)	ISO 2039-2		50
Izod notched impact strength (23°C) ISO	ISO 180/4A	KJ/m ²	55
Charpy notched impact strength (23°C)	ISO 179/1eA	KJ/m ²	55

Charpy unnotched impact strength (23°C)	ISO 179/1eU	KJ/m ²	NB
Flammability			
Glow Wire Flammability Index GWFI (1,0 mm)	IEC 60695-2-12	°C	850
Glow Wire Flammability Index GWFI (2,0 mm)	IEC 60695-2-12	°C	850
Flammability class (1,6 mm)	UL94		HB
Flammability class (3,2 mm)	UL94		HB
Electrical			
Surface resistivity	IEC 60093	Ohm	>10E15
Volume resistivity	IEC 60093	Ohm*m	>10E15
Comparative tracking index CTI	IEC 60112	V	250
Processing Conditions			
Melt Temperature Range	ISO 294	°C	260-290
Mold Temperature Range	ISO 294	°C	80-100
Injection Velocity	ISO 294		HIGH
Drying Temperature		°C	100-120
Drying Time		Hour	3
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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