



Document	ISO Datasheet
Description	PC
Grade	DAFNELOY MC
Code	
Application	Injection moulding

Unfilled. High viscosity. Good mechanical characteristics.

Properties	Method	Unit	Value
Physical			
Melt Flow Rate (300°C - 1,20 Kg)	ISO 1133	g/10'	8
Density at 23°C	ISO 1183	g/cm ³	1,20
Mould Shrinkage (%)	INTERNAL	%	0,5-0,7
Water absorption	ISO 62	%	0,10
Thermal			
Vicat B50	ISO 306	°C	146
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	128
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 stress at yield (23°C-50 mm/min)	ISO 527-2	MPa	65
Tensile stress at break (23°C-50 mm/min)	ISO 527-2	MPa	55
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 180/1A	KJ/m ²	70
Charpy notched impact strength (23°C)	ISO 179/1eA	KJ/m ²	60
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		V2
Flammability class (3,2 mm)	UL94		HB
Electrical			
Surface resistivity	IEC 60093	Ohm	>10E15
Volume resistivity	IEC 60093	Ohm*m	>10E15
Dielectric strength	IEC 60243	KV/mm	17
Comparative tracking index CTI	IEC 60112	V	225
Processing Conditions			
Melt Temperature Range	ISO 294	°C	280-310
Mold Temperature Range	ISO 294	°C	80-100
Injection Velocity	ISO 294		HIGH
Drying Temperature		°C	120-130
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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