



Document	ISO Datasheet
Description	ABS
Grade	DAFNELAC TH
Code	
Application	Injection moulding

Heat resistant grade, good mechanical properties.

Properties	Method	Unit	Value
Physical			
Melt Flow Rate (220°C - 10,00 Kg)	ISO 1133	g/10'	13
Density at 23°C	ISO 1183	g/cm ³	1,05
Mould Shrinkage (%)	INTERNAL	%	0,4-0,6
Water absorption	ISO 62	%	0,05
Thermal			
Vicat A50	ISO 306	°C	110
Vicat B50	ISO 306	°C	102
Ball Pressure Test	IEC 60695-10-2	°C	95
HDT, A (1.80 MPa)	ISO 75/Af	°C	85
HDT, B (0.45 MPa)	ISO 75/Af	°C	95
Mechanical at 23 °C			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	2500
Flexural strenght (23°C - 2 mm/min)	ISO 178	MPa	75
Tensile stress at yield (23°C-50 mm/min)	ISO 527-2	MPa	45
Tensile elong. at break (23°C-50 mm/min)	ISO 527-2	%	10
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
Rockwell hardness (R scale)	ISO 2039-2		110
Flammability			
Glow Wire Flammability Index GWFI (2,0 mm)	IEC 60695-2-12	°C	650
Flammability class (1,6 mm)	UL94		HB
Flammability class (3,2 mm)	UL94		HB
Electrical			

Surface resistivity	IEC 60093	Ohm	10E13
Volume resistivity	IEC 60093	Ohm*m	10E15
Comparative tracking index CTI	IEC 60112	V	600
Processing Conditions			
Melt Temperature Range	ISO 294	°C	210-240
Mold Temperature Range	ISO 294	°C	60-80
Injection Velocity	ISO 294		HIGH
Drying Temperature		°C	70-80
Drying Time		Hour	0,5-2
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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