

Document	ISO Datasheet
Description	ABS
Grade	DAFNELAC SF/B ATX
Code	
Application	Refrigerator and coffee machine parts.

ABS high flow and good mechanical properties. Antistatic. UV stabilized. For food compliance uses.

Properties	Method	Unit	Value
Physical			
Melt Flow Rate (220°C - 10,00 Kg)	ISO 1133	g/10'	35
Density at 23°C	ISO 1183	g/cm ³	1,04
Mould Shrinkage (%)	INTERNAL	%	0,4-0,6
Thermal			
Vicat A50	ISO 306	°C	103
Vicat B50	ISO 306	°C	94
Ball Pressure Test	IEC 60695-10-2	°C	75
HDT, B (0.45 MPa)	ISO 75/Af	°C	90
Mechanical at 23 °C			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	2400
Flexural strength (23°C - 2 mm/min)	ISO 178	MPa	67
Tensile stress at yield (23°C-50 mm/min)	ISO 527-2	MPa	43
Tensile elong. at break (23°C-50 mm/min)	ISO 527-2	%	20
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m ²	16
Izod notched impact strength (-30°C) ISO	ISO 180/1A	KJ/m ²	7
Charpy notched impact strength (23°C)	ISO 179/1eA	KJ/m ²	16
Charpy notched impact strength (-20°C)	ISO 179/1eA	KJ/m ²	7
Charpy unnotched impact strength (23°C)	ISO 179/1eU	KJ/m ²	120
Rockwell hardness (R scale)	ISO 2039-2		104
Flammability			
Glow Wire Flammability Index GWFI (2,0 mm)	IEC 60695-2-12	°C	650
GlowWire Ignition Temperature GWIT (2,0 mm)	IEC 60695-2-13	°C	675
Flammability class (1,6 mm)	UL94		HB

Electrical			
Comparative tracking index CTI	IEC 60112	V	600
Processing Conditions			
Melt Temperature Range	ISO 294	°C	210-240
Mold Temperature Range	ISO 294	°C	30-60
Injection Velocity	ISO 294		HIGH
Drying Temperature		°C	70-80
Drying Time		Hour	1-2
Regulations compliance			
RoHS compliance status:	COMPLIANT		
EN71:			
UL listed file n°:	QMFZ2.E220931		
Water contact approvals.			
Food contact status:	EU, FDA, CHINA.		

§ 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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