SIRMAX®

ISO Datasheet

Dafne®

Code	151232
Grade	DAFNELAC SF/A BLACK S4F
Polymer	ABS
Application	Injection moulding

High flow, general purpose. Black color.Antistatic.

Properties	*Method*	*Unit*	*Value*
Physical			
Melt Volume Rate (220°C - 10,00 Kg)	ISO 1133	cm3/10'	34
Density at 23°C	ISO 1183	g/cm3	1,04
Mould Shrinkage (%)	INTERNAL	%	0,4-0,7
Water absorption	ISO 62	%	0,24
Thermal			
Vicat A50	ISO 306	°C	102
Vicat B50	ISO 306	°C	95
Ball Pressure Test	IEC 60695-10-2	°C	75
Maximum service temperature	IEC 216	°C	70
Short time temperature limit	IEC 216	°C	80
HDT, A (1.80 MPa)	ISO 75/Af	°C	87
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 strenght (23°C - 2 mm/min)	ISO 178	MPa	65
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	44
Tensile elong. at yield (23°C-50 mm/min)	ISO 527-2	%	2,4
Tensile elong. at break (23°C-50 mm/min)	ISO 527-2	%	>15
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m²	18
Izod notched impact strength (-30°C) ISO	ISO 180/1A	KJ/m²	7
Charpy notched impact strength (23°C)	ISO 179/1eA	KJ/m²	19
Charpy unnotched impact strength (23°C)	ISO 179/1eU	KJ/m²	125
Charpy unnotched impact strength (-30°C)	ISO 179/1eU	KJ/m²	90
Rockwell hardness (R scale)	ISO 2039-2		100
Flammability			
Glow Wire Flammability Index GWFI (1,0 mm)	IEC 60695-2-12	°C	650
Glow Wire Flammability Index GWFI (2,0 mm)	IEC 60695-2-12	°C	650
Glow Wire Flammability Index GWFI (3,0 mm)	IEC 60695-2-12	°C	650
GlowWire Ignition Temperature GWIT (1,0 mm)	IEC 60695-2-13		675

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GlowWire Ignition Temperature GWIT (3,0 mm)	IEC 60695-2-13	°C	675
Flammability class (1,5 mm)	UL94		HB
Flammability class (3,0 mm)	UL94		HB
Electrical			
Surface resistivity	IEC 60093	Ohm	10E14
Volume resistivity	IEC 60093	Ohm*m	10E13
Comparative tracking index CTI	IEC 60112	V	600
Processing Conditions			
Melt Temperature Range	ISO 294	°C	220-260
Mold Temperature Range	ISO 294	°C	30-80
Injection Velocity	ISO 294		HIGH
Drying Temperature		°C	80
Drying Time		Hour	2-4
Regulations compliance			
RoHS compliance status:	COMPLIANT		
EN71:			
UL listed file nº:	QMFZ2.E220931		
Water contact approvals.			
Food contact status:			

Revision number/date: 1 may 21

§ 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.