

Document	ISO Datasheet
Description	ABS
Grade	DAFNELAC SN/AC
Code	
Application	Windows vac, tractor frame, aesthetic pieces with improved chemical resistance.

ABS medium flow, improved chemical resistance.

Properties	Method	Unit	Value
<b>Physical</b>			
Melt Flow Rate (220°C - 10,00 Kg)	ISO 1133	g/10'	20
Density at 23°C	ISO 1183	g/cm <sup>3</sup>	1,04
Mould Shrinkage (%)	INTERNAL	%	0,4-0,6
Water absorption	ISO 62	%	0,05
<b>Thermal</b>			
Vicat A50	ISO 306	°C	103
Vicat B50	ISO 306	°C	94
Ball Pressure Test	IEC 60695-10-2	°C	75
HDT, A (1.80 MPa)	ISO 75/Af	°C	87
HDT, B (0.45 MPa)	ISO 75/Af	°C	94
<b>Mechanical at 23 °C</b>			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	2200
Flexural strenght (23°C - 2 mm/min)	ISO 178	MPa	64
Tensile stress at yield (23°C-50 mm/min)	ISO 527-2	MPa	44
Tensile elong. at break (23°C-50 mm/min)	ISO 527-2	%	>25
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m <sup>2</sup>	20
Charpy notched impact strength (23°C)	ISO 179/1eA	KJ/m <sup>2</sup>	20
Charpy unnotched impact strength (23°C)	ISO 179/1eU	KJ/m <sup>2</sup>	150
Rockwell hardness (R scale)	ISO 2039-2		98
<b>Flammability</b>			
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

GlowWire Ignition Temperature GWIT (1,0 mm)	IEC 60695-2-13	°C	675
GlowWire Ignition Temperature GWIT (2,0 mm)	IEC 60695-2-13	°C	675
Flammability class (1,5 mm)	UL94		HB
<b>Electrical</b>			
Surface resistivity	IEC 60093	Ohm	10E13
Volume resistivity	IEC 60093	Ohm*m	10E15
Comparative tracking index CTI	IEC 60112	V	600
<b>Processing Conditions</b>			
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
<b>Regulations compliance</b>			
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.

#### Disclaimer

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.

The value above is the representative value of the NP standard and may have deviation. It can only be used for selecting materials and shall not be regarded as a material specification and cannot be used for molding designs. Information inserted in this document such as data, statements, representative values, etc. are provided solely for customer convenience. It does not expressly or impliedly guarantee anything regarding the safety or practicability of the (1) materials, (2) products, and/or (3) design that utilizes recommendations or proposals, of Sirmax. Furthermore, nothing in the contents of this document shall have any legal binding effect, and especially, the representative value is simply for reference and is not a minimum value that has legal binding effect.

Whether materials and/or products of Sirmax and/or a design that uses or utilizes Sirmax recommendations or proposals are (is) compatible with individual uses shall be determined solely by each user and such user shall be solely responsible for any results, including but not limited to, any and all loss and damages incurred due to such uses. Users must implement and verify all testing and analyses for proving the safety and compatibility of final products that have been created or altered by using Sirmax's materials or products. The data and values inserted and/or contained in this document may be changed due to quality improvement of the product without any prior notification.