

Document	ISO Datasheet
Description	PA 6
Grade	DAFNEMID 6A P12/T
Code	
Application	Handles, electric cards, connectors, seat parts, door opening system, ventilator

PA6 60% glass fiber, very high rigidity and strength, heat stabilized.

Properties	Method	Unit	Value
Physical			
Density at 23°C	ISO 1183	g/cm ³	1,70
Mould Shrinkage (%)	INTERNAL	%	0,1-0,3
Thermal			
Vicat B50	ISO 306	°C	220
Ball Pressure Test	IEC 60695-10-2	°C	165
HDT, A (1.80 MPa)	ISO 75/Af	°C	215
HDT, B (0.45 MPa)	ISO 75/Af	°C	220
Mechanical at 23 °C			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	19000
Flexural strength (23°C - 2 mm/min)	ISO 178	MPa	340
Tensile Modulus (23°C - 1 mm/min)	ISO 527-2	MPa	20000
Tensile stress at break (23°C-5 mm/min)	ISO 527-2	MPa	210
Tensile elong. at break (23°C-5 mm/min)	ISO 527-2	%	2,5
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m ²	16
Charpy notched impact strength (23°C)	ISO 179/1eA	KJ/m ²	16
Charpy unnotched impact strength (23°C)	ISO 179/1eU	KJ/m ²	75
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
Flammability class (1,6 mm)	UL94		HB
Electrical			
Surface resistivity	IEC 60093	Ohm	1E12

Volume resistivity	IEC 60093	Ohm*m	1E13
Comparative tracking index CTI	IEC 60112	V	550
Processing Conditions			
Melt Temperature Range	ISO 294	°C	260-280
Mold Temperature Range	ISO 294	°C	70-90
Injection Velocity	ISO 294		HIGH
Drying Temperature		°C	80-100
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.

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.

Sirmax s.p.a.

E.A.R. N° 91334
P.IVA 00168180248
sirmax@sirmax.com

Group Headquarter:

Viale dell'Artigianato, 42
35013 Cittadella (PD) – Italy
Tel. +39 049 9441111 – Fax +39 049 9441112