

## ISONYL

Code	
Grade	A 6 GF30 V0
Polymer	PA 6
Application	Injection Moulding

30% glass fiber. Flame retardant grade with halogens.

Properties	Method	Unit	Value
Physical			
Density at 23°C	ISO 1183	g/cm <sup>3</sup>	1,60-1,62
Mould Shrinkage <sup>§</sup> (%)	INTERNAL	%	0,2-0,4
Thermal			
VICAT B50	ISO 306	°C	200
HDT, A (1,80 MPa)	ISO 75/Af	°C	195
HDT, A (0,45 MPa)	ISO 75/Af	°C	215
Mechanical at 23 °C			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	9000
Flexural strength (23°C - 2 mm/min)	ISO 178	MPa	200
Tensile Modulus (23°C - 1 mm/min)	ISO 527	MPa	10000
Tensile strength at break (23°C - 5 mm/min)	ISO 527	MPa	120
Tensile elong. at break (23°C - 5 mm/min)	ISO 527	%	5,0
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m <sup>2</sup>	10
Charpy unnotched impact strength (23°C)	ISO 179/1eU	KJ/m <sup>2</sup>	50
Flammability			
Glow Wire Flammability Index GWFI (1,0 mm)	IEC 606925-2-12	°C	960
Glow Wire Flammability Index GWFI (3,0 mm)	IEC 606925-2-12	°C	960
Flammability class (0,8 mm)	UL 94		V0
Flammability class (3,0 mm)	UL 94		V0

## SIRMAX S.P.A.

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## Registered office and warehouse

Via Fabbrega, 18  
36030 Isola Vicentina (VI) – Italy

## Processing Conditions

Melt Temperature Range	ISO 294	°C	240-270
Mold Temperature Range	ISO 294	°C	70-90
Injection Velocity	ISO 294		MEDIUM
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:

## Technical documents

Material safety datasheet: <http://www.sirmax.it/sites/default/files/ISONYL%C2%AE%20MSDS.pdf>

Revision number/date: 0 MAR 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 3.0 x 12.7 x 127 mm sample.

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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.

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