

ISONYL[®]	Code	
	Grade	A 6 GF50 UV BK
	Polymer	Polyamide 6
	Application	Injection moulding

50% glass fiber reinforced polyamide 6. UV stabilized. Black color.

Properties	Method	Unit	Value
Physical			
Density at 23°C	ISO 1183	g/cm ³	1,55-1,58
Mould Shrinkage (%)	INTERNAL	%	0,2-0,4
Filler Content (1h/600°C)	ISO 3451-1	%	50
Thermal			
Vicat B50	ISO 306	°C	215
HDT, A (1.80 MPa)	ISO 75/Af	°C	215
Mechanical at 23 °C			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	13500
Flexural strength (23°C - 2 mm/min)	ISO 178	MPa	245
Tensile stress at break (23°C-5 mm/min)	ISO 527-2	MPa	175
Tensile elong. at break (23°C-5 mm/min)	ISO 527-2	%	3,5
Charpy notched impact strength (23°C)	ISO 179/1eA	KJ/m ²	11
Flammability Class			
Flammability class (1,6 mm)	UL94		HB
Processing Conditions			
Melt Temperature Range	ISO 294	°C	240-280
Mold Temperature Range	ISO 294	°C	60-80
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>

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§ 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 125 x 160 mm sample.

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SIRMAX S.P.A.

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

Sales office, administration and production plant

Via dell'artigianato, 42
35010 Cittadella (PD) – Italy
Tel. 049 9441111 – Fax 049 9441112

Registered office and warehouse

Via dell'artigianato, 42
35010 Cittadella (PD) – Italy
Tel. 049 9441111 – Fax 049 9441112