

<b>ISONYL</b>	Grade	B 6 GF30 BK
	Polymer	Polyamide 6
	Application	Injection moulding

30% glass fiber reinforced polyamide 6 in black.

Properties	Method	Unit	Value
<b>Physical</b>			
Density at 23 °C	ISO 1183	g/cm <sup>3</sup>	1,36
Mould Shrinkage (%)	INTERNAL	%	0,4
Filler Content (1h/600 °C)	ISO 3541	%	30
<b>Thermal</b>			
Vicat B50	ISO 306	°C	215
HDT, A (1.80 MPa)	ISO 75/Ae	°C	205
<b>Mechanical at 23 °C</b>			
Flexural Modulus (23 °C - 2 mm/min)	ISO 178	MPa	7700
Izod notched impact strength (23 °C) ISO	ISO 180/1A	KJ/m <sup>2</sup>	15
Izod unnotched impact strength (23 °C)	ISO 180/1U	KJ/m <sup>2</sup>	75
Tensile stress at yield (23 °C-5 mm/min)	ISO 527-2	MPa	110
Tensile stress at break (23 °C-5 mm/min)	ISO 527-2	MPa	140
Tensile elong. at break (23 °C-5 mm/min)	ISO 527-2	%	3,0
<b>Flammability</b>			
Glow Wire Flammability Index GWFI (3,0 mm)	IEC 606925-2-12	°C	650
<b>Flammability Class</b>			
Flammability class (3,0 mm)	UL94		HB

## Regulations compliance

RoHS compliance status: **COMPLIANT**

UL listed file n°:

Water contact approvals.

Food contact status:

## Technical documents

Process data for injection moulding: <http://www.sirmax.it/sites/default/files/ISONYL%C2%AE%20Process%20Data.pdf>

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 12.7 x 127 mm sample.

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