

### ISONYL

Code	
Grade	A 6 GF40
Polymer	Polyamide 6
Application	Injection moulding

40% glass reinforced PA6.

Properties	Method	Unit	Value
Physical			
Density at 23°C	ISO 1183	g/cm <sup>3</sup>	<b>1,45</b>
Mould Shrinkage (%)	INTERNAL	%	<b>0,3</b>
Filler Content (1h/600°C)	ISO 3451-1	%	<b>40</b>
Thermal			
Vicat B50	ISO 306	°C	<b>215</b>
HDT, A (1.80 MPa)	ISO 75/Af	°C	<b>210</b>
Mechanical at 23 °C			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	<b>10500</b>
Tensile stress at break (23°C-5 mm/min)	ISO 527-2	MPa	<b>190</b>
Izod notched impact strength (23°C)	ISO 180/1A	KJ/m <sup>2</sup>	<b>13</b>
Izod unnotched impact strength (23°C)	ISO 180/1U	KJ/m <sup>2</sup>	<b>100</b>
Flammability Class			
Flammability class (3,0 mm)	UL94		<b>HB</b>

### 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 FEB 20

§ 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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