

ISONYL

Grade	A 6 GF15 NA	Code	160038
Polymer	Polyamide 6		
Application	Injection moulding		

15% glass fiber reinforced polyamide 6. Natural colour.

Properties	Method	Unit	Value
Physical			
Density at 23°C	ISO 1183	g/cm3	1,21
Mould Shrinkage (%)	INTERNAL	%	0,6
Filler Content (1h/600°C)	ISO 3541	%	15
Thermal			
Vicat B50	ISO 306	°C	210
HDT, A (1.80 MPa)	ISO 75/Ae	°C	180
Mechanical at 23 °C			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	5500
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m ²	7
Izod unnotched impact strength (23°C)	ISO 180/1U	KJ/m ²	45
Tensile stress at break (23°C-5 mm/min)	ISO 527-2	MPa	120
Tensile elong. at break (23°C-5 mm/min)	ISO 527-2	%	4,0
Flammability Class			
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
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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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