

ISONYL

Code	
Grade	A 6 GF30 UV BK
Polymer	Polyamide 6
Application	Injection moulding

30% glass fiber. UV stabilized. Black color.

Properties	Method	Unit	Value
Physical			
Density at 23°C	ISO 1183	g/cm ³	1,36
Mould Shrinkage	INTERNAL	%	0,2 - 0,5
Mechanical at 23 °C			
Tensile Modulus (23°C - 5 mm/min)	ISO 527-2	MPa	9500
Tensile stress at break (23°C-5 mm/min)	ISO 527-2	MPa	170
Tensile elongatg. at break (23°C-5 mm/min)	ISO 527-2	%	3
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	8400
Flexural strenght (23°C - 2 mm/min)	ISO 178	MPa	250
Izod notched impact strength (23°C)	ISO 180/1A	KJ/m ²	10
Charpy notched impact strength (23°C)	ISO 179/1eA	KJ/m ²	11
Charpy unnotched impact strength (23°C)	ISO 179/1U	KJ/m ²	75
Thermal			
HDT A, (1,820 MPa)	ISO 75/Af	°C	210
Vicat B50	ISO 306	°C	210
Flammability			
Flammability class 1,6 mm	UL94		HB

Regulations compliance

RoHS compliance status: COMPLIANT

EN71:

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>

Revision number/date: 0 GEN 19

§ 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.

Disclaimer

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