

|               |                    |                    |             |        |
|---------------|--------------------|--------------------|-------------|--------|
| <b>ISONYL</b> | <b>Grade</b>       | A 6 GF15 NA        | <b>Code</b> | 160038 |
|               | <b>Polymer</b>     | Polyamide 6        |             |        |
|               | <b>Application</b> | Injection moulding |             |        |

15% glass fiber reinforced polyamide 6. Natural colour.

| Properties                              | Method     | Unit              | Value |
|---|------------|-------------------|-------|
| <b>Physical</b>                         |            |                   |       |
| Density at 23°C                         | ISO 1183   | g/cm3             | 1,21  |
| Mould Shrinkage (%)                     | INTERNAL   | %                 | 0,6   |
| Filler Content (1h/600°C)               | ISO 3541   | %                 | 15    |
| <b>Thermal</b>                          |            |                   |       |
| Vicat B50                               | ISO 306    | °C                | 210   |
| HDT, A (1.80 MPa)                       | ISO 75/Ae  | °C                | 180   |
| <b>Mechanical at 23 °C</b>              |            |                   |       |
| Flexural Modulus (23°C - 2 mm/min)      | ISO 178    | MPa               | 5500  |
| Izod notched impact strength (23°C) ISO | ISO 180/1A | KJ/m <sup>2</sup> | 7     |
| Izod unnotched impact strength (23°C)   | ISO 180/1U | KJ/m <sup>2</sup> | 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   |
| <b>Flammability Class</b>               |            |                   |       |
| Flammability class (3,0 mm)             | UL94       |                   | HB    |

### Regulations compliance

RoHS compliance status: **COMPLIANT**

UL listed file n°:

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Water contact approvals.

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Food contact status:

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### Technical documents

|                                      |   |
|--------------------------------------|---|
| Process data for injection moulding: | <a href="http://www.sirmax.it/sites/default/files/ISONYL%C2%AE%20Process%20Data.pdf">http://www.sirmax.it/sites/default/files/ISONYL%C2%AE%20Process%20Data.pdf</a> |
| Material safety datasheet:           | <a href="http://www.sirmax.it/sites/default/files/ISONYL%C2%AE%20MSDS.pdf">http://www.sirmax.it/sites/default/files/ISONYL%C2%AE%20MSDS.pdf</a>                     |

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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.

#### Disclaimer

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