#### **Ultramid**® **Product Information**

## A 718 V30 NATURAL



PA66-GF30 08/2020

#### **Product description**

Ultramid® A 718 V30 Natural is a chemically recycled polyamide 66, reinforced with 30% of glass fiber, heat stabilized, for injection moulding. This grade offers an excellent combination between thermal and mechanical properties.

#### Injection Notes

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point mini -20°C. Recommended time 2-4h

- · For reinforced polyamides, BASF SE recommends the use of steel with a high content of carbon, and purified for polishing, to avoid or limit the abrasion. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm) or X160CrMoV12 (EN Norm) - 1.2601 /1.2379 (DIN Norm). In the case of high requirements on surface quality a mould temperature of up to 120°C can be considered.

  • The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design.

#### Disclaimer

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and it is in no way binding. This information must on no account be used as a substitutive for necessary prior tests which alone can ensure that a product is suitable for a given use. ANY WARRANTY OF PRODUCT PERFORMANCE, MERCHANDABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS EXPRESSLY EXCLUDED. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations. Users are requested to check that they are in possession of the latest version of this document, and BASF SE is at their disposal to supply any additional information.

#### **Safety Information**

Detailed information regarding safety are available on the safety data sheet (SDS). SDS is sent with the first material order or available by contacting our customer services

### **Regulations Compliance**

This product is not intended to be used for the following regulated market: food contact, drinking water, toys, cosmetics or

This grade complies with ROHS Directive 2011/65/EU and 2015/863 as amended.

#### **Customer Services**

Our customer services are not only concerned with manufacturing and supply of Engineering Plastics products. We are available to assist our customers in finding technical solutions that meet their requirements. Specific support is in particular offered on:

- Material selection
- Material testing
- Parts design advice, training for design engineers
  Part testing

- Design simulation
  Processing through different technologies
  Assembly and post-processing technology expertise
- Parts optimization through Computer Aided Design

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# **Product Information**

Typical values for uncoloured product at 23 °C1)	Test method	Unit	Values <sup>2)</sup>
General Properties			
South and Central America Processing: Injection moulding (M), Extrusion (E), Blow moulding (B) Colour; black (bk), uncoloured (un), coloured (co), transparent (tr) Pellets	- - - -	- - -	+ M bk,un +
Physical			
Molding shrinkage (parallel) Molding shrinkage (normal) Water absorption, 24 h in water, 23 °C Density	ISO 294-4 ISO 294-4 ISO 62 ISO 1183	% % % kg/m³	0.30 1.00 0.75 1370 / -
Mechanical properties			dry / cond.
Tensile modulus Stress at break Strain at break Flexural modulus Flexural strength Charpy notched impact strength ISO 179/1eA (23°C) Charpy impact strength ISO 179-1eU (23°C) Izod notched impact strength ISO 180/A (23°C) Izod impact strength ISO 180/U (23°C), MPTS	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178 ISO 179/1eA ISO 180/A ISO 180/U	MPa MPa % MPa MPa kJ/m² kJ/m² kJ/m²	9000 / 6000 155 / 90 1.9 / 5.5 8200 / 5500 230 / 130 5 / 6.5 38 / 48 5 / 6.5 35 / 42
Thermal properties			
HDT A (1.80 MPa) Melting temperature, DSC (10°C/min)	ISO 75-1/-2 ISO 11357-1/-3	°C °C	240 255
Injection			
Pre/Post-processing, Pre-drying, Temperature Pre/Post-processing, max. allowed water content Injection molding cylinder temperature 1 (feed zone) Injection molding cylinder temperature 2 (compression) Injection molding cylinder temperature 3 (metering-zone, head room of screw) injection molding, Mold temperature, range	- - - - - ISO 294	, , , , , ,	80 0.2 270 - 280 275 - 285 280 - 290 70 - 100

If product name or properties don't state otherwise.
 The asterisk symbol '\*' signifies inapplicable properties.