**Product Information** 

Ultramid®

A 218 V15 BLACK 21N



08/2020

### PA66-GF15

#### Product description

Ultramid® A 218 V15 Black 21N is a polyamide 66, reinforced with 15% of glass fibre, 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

Injection Advice:

· 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 medical devices

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

Grades produced or imported in Europe comply with REACH directive 1907/2006/EC 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

# Ultramid<sup>®</sup> A 218 V15 BLACK 21N

## **Product Information**

We create chemistry

General Properties	
North America	
North America	+
Asia Pacific	+
South and Central America	+
Near East/Africa	+
Processing: Injection moulding (M), Extrusion (E), Blow moulding (B)	M
Colour; black (bk), uncoloured (un), coloured (co), transparent (tr) - b Pellets	k,un +
Physical	
Molding shrinkage (parallel) ISO 294-4 % C	0.50
5 5 4 <i>j</i>	1.40
Water absorption, 24 h in water, 23 °C ISO 62 %	1.1
Density ISO 1183 kg/m <sup>3</sup> 12	240 / -
Mechanical properties dry	/ cond.
	) / 4300
	5 / 90
	3/8
	) / 3500
	/ 115
	/ 6.5
	0 / 65 / 10
	) / 65
Thermal properties	
	245
	263
Electrical properties dry	/ cond.
Surface resistivity IEC 62631-3-2 Ohm */	1E13
Volume resistivity IEC 62631-3-1 Ohm*m 1E15	5/1E15
	1 / 30
	01/-
Comparative tracking index, CTI, test liquid A IEC 60112 - 400	) / 325
Flammability	
	HB 24
Injection	
	80
	0.2
5	) - 280
	5 - 285
	) - 290
injection molding, Mold temperature, range ISO 294 °C 70	- 100

Footnotes

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