**Product Information** 

B 218 MX30

Ultramid®

### PA66/6-MD30



#### Product description

Ultramid® B 218 MX30 is a polyamide 66/6, reinforced with 30% of mineral filler, heat stabilized, for injection moulding.

#### **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 (MSDS). MSDS 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, 2015/863 and local regulations 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> B 218 MX30

## **Product Information**

Typical values for uncoloured product at 23 °C <sup>1)</sup>	Test method	Unit	Values <sup>2)</sup>
General Properties			
North America Processing: Injection moulding (M), Extrusion (E), Blow moulding (B) Colour; black (bk), uncoloured (un), coloured (co), transparent (tr) Pellets		-	+ M un +
Physical			
Water absorption, 24 h in water, 23 °C Density	ISO 62 ISO 1183	% kg/m³	1.1 1380 / -
Mechanical properties			dry / cond.
Tensile modulus Stress at break Yield strain, 50 mm/min Strain at break Flexural modulus 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)	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 179/1eA ISO 179/1eU ISO 180/A	MPa MPa % MPa kJ/m <sup>2</sup> kJ/m <sup>2</sup> kJ/m <sup>2</sup>	7400 / 4000 80 / 50 4 / 12 4 /- 6000 / 2600 3 / 6 40 / 110 3 / 5
Thermal properties			
HDT A (1.80 MPa) Melting temperature, DSC (10°C/min)	ISO 75-1/-2 ISO 11357-1/-3	°C ℃	180 242
Electrical properties			dry / cond.
Surface resistivity Volume resistivity Electric strength (d = 2.0 mm) Dissipation factor (100 Hz) Comparative tracking index, CTI, test liquid A Comparative tracking index, CTI M, test liquid B	IEC 62631-3-2 IEC 62631-3-1 IEC 60243-1 IEC 62631-2-1 IEC 60112 IEC 60112	Ohm Ohm*m kV/mm E-4 - -	1E14 / 1E12 6E12 / 1E12 35 / 30 0.02 / 0.08 550 / 550 500 / -
Flammability			
Glow Wire Flammability Index (1.6 mm) Oxygen index	IEC 60695-2-12 ISO 4589-1/-2	°C %	650 26
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	- - - - - - - - - - - - - - - - - - -	ວູ ວູວູ ວູວູ ວູ	80 0.2 255 - 265 260 - 270 270 - 280 70 - 100



