

Product Information Ultramid®**A 218W V33 NATURAL T**

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PA66-GF33
We create chemistry**Product description**

Ultramid® A 218W V33 Natural T is a polyamide 66, reinforced with 30% of glass fibre, heat stabilized, for injection moulding. The product is particularly recommended for the moulding of parts where some translucency is required, as well as surface aesthetics is important.

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, MERCHANTABILITY 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.

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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Typical values for uncoloured product at 23 °C ¹⁾	Test method	Unit	Values ²⁾
General Properties			
North America	-	-	+
Processing: Injection moulding (M), Extrusion (E), Blow moulding (B)	-	-	M
Colour; black (bk), uncoloured (un), coloured (co), transparent (tr)	-	-	un
Pellets	-	-	+
Physical			
Density	ISO 1183	kg/m ³	1400
Mechanical properties			
Tensile modulus	ISO 527-1/-2	MPa	10200
Stress at break	ISO 527-1/-2	MPa	190
Strain at break	ISO 527-1/-2	%	3.8
Flexural modulus	ISO 178	MPa	8950
Flexural strength	ISO 178	MPa	294
Charpy notched impact strength ISO 179/1eA (23°C)	ISO 179/1eA	kJ/m ²	11
Charpy impact strength ISO 179-1eU (23°C)	ISO 179/1eU	kJ/m ²	91
Izod notched impact strength ISO 180/A (23°C)	ISO 180/A	kJ/m ²	11
Thermal properties			
HDT B (0.45 MPa)	ISO 75-1/-2	°C	263
HDT A (1.80 MPa)	ISO 75-1/-2	°C	247
Melting temperature, DSC (10°C/min)	ISO 11357-1/-3	°C	263
Injection			
Pre/Post-processing, Pre-drying, Temperature	-	°C	80
Pre/Post-processing, max. allowed water content	-	%	0.2
Injection molding cylinder temperature 1 (feed zone)	-	°C	270 - 280
Injection molding cylinder temperature 2 (compression)	-	°C	275 - 285
Injection molding cylinder temperature 3 (metering-zone, head room of screw)	-	°C	280 - 290
Injection molding, Mold temperature, range	ISO 294	°C	70 - 100

Footnotes

1) If product name or properties don't state otherwise.

2) The asterisk symbol "*" signifies inapplicable properties.

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