Product Information

Ultramid®

STAR AFX 218 V60 NATURAL



PA66-GF60

Product description

Ultramid® STAR AFX 218 V60 Natural is a high flow polyamide 66 resin, reinforced with 60% of glass fibre, heat stabilized, for injection moulding. Due to its outstanding flow caracteristics, this grade shows exceptional processing behaviour and excellent surface aspect of the finished part.

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 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.

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





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Product Information

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We create chemistry

Typical values for uncoloured product at 23 °C ¹⁾	Test method	Unit	Values ²⁾	
General Properties				
North America Asia Pacific South and Central America Near East/Africa Processing: Injection moulding (M), Extrusion (E), Blow moulding (B) Colour; black (bk), uncoloured (un), coloured (co), transparent (tr) Pellets			+ + + M bk,un +	
Physical				
Water absorption, 24 h in water, 23 °C Density	ISO 62 ISO 1183	% kg/m³	0.6 1690 / -	
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 179/1eU ISO 180/A ISO 180/U	MPa MPa MPa kJ/m ² kJ/m ² kJ/m ² kJ/m ²	22000 / 18000 268 / 195 2.1 / 3.1 19000 /- 416 /- 14 / 22 98 / 100 18 / 21 85 / 93	
Thermal properties				
HDT A (1.80 MPa) Melting temperature, DSC (10°C/min)	ISO 75-1/-2 ISO 11357-1/-3	℃ ℃	257 264	
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	ပံ ပံ ပံ လိ ဂ	80 0.2 265 - 275 270 - 280 280 - 290 60 - 90	



