Product Information

Ultramid®

STAR AF 219 V30 BLACK



PA66-GF30

Product description

Ultramid® STAR AF 219 V30 Black is a polyamide 6.6, high flow, reinforced with 30% of glass fiber, heat stabilized, for injection moulding. This grade has enhanced moulding behaviors and better surface aspect. It offers an excellent combination between thermal and mechanical properties. This grade restricts electrolytic corrosion. This grade is ideal for Mucell® injection moulding technology.

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 (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 testingParts 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 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			
Molding shrinkage (parallel) Molding shrinkage (normal) Water absorption, 24 h in water, 23 °C Moisture absorption, equilibrium 23°C/50% r.h Density	ISO 294-4 ISO 294-4 ISO 62 similar to ISO 62 ISO 1183	% % % % kg/m³	0.30 1.00 0.8 1.90 1360 / -
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 impact strength ISO 180/U (23°C), MPTS HDT A (1.80 MPa), ASTM	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178 ISO 179/1eA ISO 179/1eU ISO 180/U ASTM D 648	MPa MPa % MPa MPa kJ/m² kJ/m² cC	10000 / 6500 185 / 110 2.6 / 7.5 9000 / - 270 / - 8 / 10 60 / 75 50 / - 252
Thermal properties			
HDT B (0.45 MPa) HDT A (1.80 MPa) HDT A (1.82 MPa), ASTM Melting temperature, DSC (10°C/min)	ISO 75-1/-2 ISO 75-1/-2 ASTM D 648 ISO 11357-1/-3	ပ ပ ပ ပ	258 250 252 258
Electrical properties			dry / cond.
Comparative tracking index, CTI, test liquid A	IEC 60112	-	600 / -
Flammability			
Burning Behav. at 1.6 mm nom. thickn.	IEC 60695-11-10	class	НВ
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	°C °C °C °C °C	80 0.2 265 - 275 270 - 280 280 - 290 60 - 90



