Product Information

Ultramid®

eXten D 238 V30 BLACK



PA610-GF30

Product description

Ultramid® eXten D 238 V30 Black is a polyamide 6.10, reinforced with 30% of glass fibre, heat stabilized, impact modified, for injection moulding. Thi grade offers excellent chemical resistance, low water absorption, very good mechanical properties and moldability. It is a partially bio-sourced material.

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 intention processing temperature.
- 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

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

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)	-	-	M
Colour; black (bk), uncoloured (un), coloured (co), transparent (tr) Pellets	-	-	bk +
Physical			
Molding shrinkage (parallel)	ISO 294-4	%	0.30
Molding shrinkage (normal)	ISO 294-4	%	0.70
Water absorption, 24 h in water, 23 °C	ISO 62	%	0.34
Water absorption, equilibrium in water at 23°C	similar to ISO 62	%	1.9
Density	ISO 1183	kg/m³	1250 / -
Mechanical properties			dry / cond.
Tensile modulus	ISO 527-1/-2	MPa	7900 / 4900
Stress at break	ISO 527-1/-2	MPa	115 / 80
Strain at break	ISO 527-1/-2	%	4/9
Flexural modulus Flexural strength	ISO 178 ISO 178	MPa MPa	6500 / - 180 / -
Charpy notched impact strength ISO 179/1eA (23°C)	ISO 179/1eA	kJ/m²	12/-
Charpy impact strength ISO 179/1eU (-30°C)	ISO 179/1eU	kJ/m²	100/-
Charpy impact strength ISO 179-1eU (23°C)	ISO 179/1eU	kJ/m²	80 / 100
Thermal properties			
HDT B (0.45 MPa)	ISO 75-1/-2	°C	216
HDT A (1.80 MPa)	ISO 75-1/-2	°C	194
Melting temperature, DSC (10°C/min)	ISO 11357-1/-3	°C	215
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	240 - 250
Injection molding cylinder temperature 2 (compression)	-	°C	245 - 255
Injection molding cylinder temperature 3 (metering-zone, head room of screw)	ISO 294	°C	250 - 260
injection molding, Mold temperature, range	150 294	-0	60 - 90



