Product Information

Ultramid®

B 230 GREY 1429 H

PA66/6

We create chemistry

Product description

Ultramid® B 230 Grey 1429 H is an unfilled copolyamide 6.6/6, impact modified, for injection moulding. This product offers an excellent notched impact resistance, even at low temperature.

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.

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			
Asia Pacific Processing: Injection moulding (M), Extrusion (E), Blow moulding (B) Colour; black (bk), uncoloured (un), coloured (co), transparent (tr) Pellets		- -	+ M bk,un,co +
Physical			
Water absorption, 24 h in water, 23 °C Density	ISO 62 ISO 1183	% kg/m³	1.4 1090 / -
Mechanical properties			dry / cond.
Tensile modulus Yield stress, 50 mm/min Tensile stress at yield, 2 in/min (ASTM) Stress at break Yield strain, 50 mm/min Strain at break Tensile elongation at break, 2 in/min (ASTM) Flexural modulus Flexural modulus (ASTM) Flexural modulus (ASTM) Flexural strength Flexural strength Flexural strength (ASTM) 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 ASTM D 638 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ASTM D 638 ISO 178 ASTM D 790 ISO 178 ASTM D 790 ISO 179/1eA ISO 179/1eU ISO 180/A ASTM D 256	MPa MPa MPa % % MPa MPa MPa kJ/m² kJ/m² J/m	2300 / 900 60 / 45 65 / - 50 / 40 5 / 12 50 / 250 70 / - 2000 / 700 2400 / - 80 / 27 85 / - 8 / 30 N / - 7 / 18 140 / -
Thermal properties			
HDT B (0.45 MPa), ASTM HDT A (1.80 MPa) HDT A (1.82 MPa), ASTM Melting temperature, DSC (10°C/min)	ASTM D 648 ISO 75-1/-2 ASTM D 648 ISO 11357-1/-3	ວ° ວ° ວ	185 62 70 242
Electrical properties			dry / cond.
Surface resistivity Volume resistivity Electric strength (d = 2.0 mm) 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 60112 IEC 60112	Ohm Ohm*m kV/mm - -	5E15 / 1E13 1E14 / 1E12 20 / 16 600 / 600 475 / -
Flammability			
Burning Behav. at 1.6 mm nom. thickn. Dxygen index	IEC 60695-11-10 ISO 4589-1/-2	class %	HB 21
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) njection molding, Mold temperature, range	- - - - - - - - - - - - - - - - - - -	ဝံ ဝံ ဝံ လိ ဂ	80 0.2 250 - 260 255 - 265 265 - 275 60 - 80



