#### **Ultramid® Product Information**

1015CRT

PA<sub>6</sub>



#### **Product description**

Ultramid® 1015CRT is an unfilled polyamide 6, standard for fast injection cycles, for injection moulding.

This product is available in bright and black color.

#### **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 interesting parameters.
- 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

### **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 <sup>2)</sup>
General Properties			
Asia Pacific Processing: Injection moulding (M), Extrusion (E), Blow moulding (B) Colour; black (bk), uncoloured (un), coloured (co), transparent (tr)	- - -	-	+ M bk,un
Physical			
Water absorption, 24 h in water, 23 °C Density	ISO 62 ISO 1183	% kg/m³	1.3 1140 / -
Mechanical properties			dry / cond.
Tensile modulus Yield stress, 50 mm/min Tensile stress at yield, 2 in/min (ASTM) Strain at break Tensile elongation at break, 2 in/min (ASTM) Flexural modulus (ASTM) Flexural strength Flexural strength (ASTM) Charpy notched impact strength ISO 179/1eA (23°C) Izod notched impact strength ASTM D 256 (23°C)	ISO 527-1/-2 ISO 527-1/-2 ASTM D 638 ISO 527-1/-2 ASTM D 638 ASTM D 790 ISO 178 ASTM D 790 ISO 179/1eA ISO 180/A ASTM D 256	MPa MPa MPa % MPa MPa MPa KJ/m² kJ/m²	2800 / - 80 / - 80 / - 45 / - 40 / - 3050 / 2700 115 / - 110 / - 4 / - 3.2 / - 55 / -
Thermal properties			
HDT B (0.45 MPa), ASTM HDT A (1.82 MPa), ASTM Melting temperature, DSC (10°C/min)	ASTM D 648 ASTM D 648 ISO 11357-1/-3	°C °C °C	180 60 222
Electrical properties			dry / cond.
Surface resistivity Volume resistivity Dissipation factor (1 MHz) Comparative tracking index, CTI, test liquid A	IEC 62631-3-2 IEC 62631-3-1 IEC 62631-2-1 IEC 60112	Ohm Ohm*m E-4 -	1E13 / - 1E13 / - 0.02 / - 600 / -
Flammability			
Oxygen index	ISO 4589-1/-2	%	26
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	°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	80 0.2 230 - 235 235 - 240 235 - 245 60 - 80



