# Product Information Ultramid®

**B35WZ4** 

09/2025 **PA6-I** 



## **Product Information**

Medium viscosity, heat stabilised polyamide 6 for extrusion.

#### Physical form and storage

The product is supplied in the form of granules with a bulk density of approx. 0.7 g/cm³. Standard packs are bag and bulk container (octagonal IBC=intermediate bulk container made from corrugated board with a liner bag). Other packaging materials and shipping in road or rail silo wagons are possible by agreement. The containers should only be opened immediately before processing or drying. To ensure that the delivered product absorbs as little moisture as possible, the containers should be stored in dry rooms and always carefully closed again after partial quantities have been withdrawn. In principle, the product can be stored for a long period of time. Containers stored in cold rooms should be equalized to ambient temperature before opening in order to avoid condensation on the granules. Regardless of the storage conditions, the product should be pre-dried according to our recommendations and the machine should preferably be loaded using a closed conveyor system.

### **Product safety**

In case processing is done under conditions as recommended (cf. processing data sheet) melts are thermally stable and do not generate hazards by molecular degradation or the evolution of gases and vapors. Like all thermoplastic polymers the product decomposes on exposure to excessive thermal load, e.g. when it is overheated or as a result of cleaning by burning off. Further information is available from the safety data sheet.

#### Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. In order to check the availability of products please contact us or our sales agency.

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## **Product Information**



Typical values for uncoloured product at 23 °C¹)	Test method	Unit	Values <sup>2)</sup>
Properties			
Polymer abbreviation Density Water absorption, saturation in water at 23°C Moisture absorption, equilibrium 23°C/50% r.h.	ISO 1183 similar to ISO 62 similar to ISO 62	- kg/m³ % %	PA6-I 1070 7 - 8 2 - 2.5
Processing			
Melting temperature, DSC MVR 275 °C/5 kg Melt temperature, injection moulding/extrusion Mould temperature, injection moulding Molding shrinkage (parallel) Molding shrinkage (normal)	ISO 11357-1/-3 ISO 1133 - - ISO 294-4 ISO 294-4	°C cm³/10min °C °C °C %	220 6 260 - 280 70 - 80 1.85 1.59
Flammability			
Automotive materials (Thickness 1 mm) 3)	ISO 3795, FMVSS 302	-	+
Mechanical properties			dry / cond.
Tensile modulus Yield stress, 50 mm/min Yield strain, 50 mm/min Nominal strain at break, 50 mm/min Flexural modulus Charpy unnotched impact strength (23°C) Charpy unnotched impact strength (-30°C) Charpy notched impact strength (23°C) Charpy notched impact strength (-30°C) Flexural stress at 3.5 % strain	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 179/1eU ISO 179/1eU ISO 179/1eA ISO 179/1eA	MPa MPa % % MPa kJ/m² kJ/m² kJ/m² kJ/m²	1800 / 500 45 / 30 4 / 20 >50 / >50 1400 / - N / N N / N 90 / 120 20 / 15 45 / -
Thermal properties			
Deflection temp. under load 1.8 MPa (HDT A) Deflection temp. under load 0.45 MPa (HDT B) Coefficient of linear thermal expansion, longitudinal (23-55)°C Coefficient of linear thermal expansion, transverse (23-55)°C	ISO 75-1/-2 ISO 75-1/-2 ISO 11359-1/-2 ISO 11359-1/-2	°C °C E-6/K E-6/K	50 60 75 95
Electrical properties			dry / cond.
Relative permittivity (1 MHz) Dissipation factor (1 MHz) Volume resistivity	IEC 62631-2-1 IEC 62631-2-1 IEC 62631-3-1	E-4 Ohm*m	3.2 / - 200 / - 1E13 / -

<sup>1)</sup> If product name or properties don't state otherwise.
2) The asterisk symbol '\*' signifies inapplicable properties.
3) += passed