## Product Information Ultramid®

8202 HS BK102



10/2023 **PA6** 

### **Product description**

Ultramid® 8202 HS BK102 is a heat stabilized, low viscosity, general purpose Polyamid 6 injection molding. It possesses the combination of strength and toughness and has excellent chemical and abrasion resistance. The heat stabilizer system extends the retention of properties at the more elevated temperatures. Excellent in filling thin walls or areas.

Ultramid® 8202 HS is generally recommended for drapery hardware, gears, fittings, furniture casters, bearings, handles, clips, fasteners and thin parts.

### 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the containers should be stored in dry rooms and always carefully closed again after partial quantities have been withdrawn.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 1130 9.5 2.7
Processing			
Melting temperature, DSC	ISO 11357-1/-3	°C	220
Flammability			
UL94 flammability rating (thickness tested) Yellow Card available	IEC 60695-11-10 -	class (mm) -	V-2 (0.7) yes
Mechanical properties			dry / cond.
Tensile modulus Yield stress, 50 mm/min Yield strain, 50 mm/min Nominal strain at break, 50 mm/min Charpy unnotched impact strength (23°C) Charpy notched impact strength (23°C)	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 179/1eU ISO 179/1eA	MPa MPa % % kJ/m² kJ/m²	3100 / 970 85 / 36 4 / 16 25 / >50 N / - 3 / -
Thermal properties			
Deflection temp. under load 1.8 MPa (HDT A)	ISO 75-1/-2	°C	60
Electrical properties			dry / cond.
Volume resistivity Comparative tracking index, CTI, test liquid A	IEC 62631-3-1 IEC 60112	Ohm*m -	>1E13 / - -

If product name or properties don't state otherwise.
 The asterisk symbol '\*' signifies inapplicable properties.