

**Product Information Ultramid®****1C**

07/2015

**PA6/66/136****Product description**

Alcohol soluble polyamide for tough, abrasion-resistant coatings and coverings with high oxygen barrier.

**Physical form and storage**

The product is supplied dry and ready to use in moisture-proof packaging. The material is in the form of cylindrical or flat pellets. Its bulk density is about 0,7 g/cm<sup>3</sup>. Standard packs are the special 25 kg bag and the 1000 kg bulk container (octagonal IBC=intermediate bulk container made from corrugated board with a liner bag). Subject to agreement other forms of packaging and shipment in tankers by road or rail are also possible. All containers are tightly sealed and should be opened only immediately prior to processing. To ensure that the perfectly dry material delivered cannot absorb moisture from the air the containers must be stored in dry rooms and always carefully sealed again after some of the material has been withdrawn. Ultramid® can be stored for a longer period of time in dry, well vented rooms without any change to properties. After longer storage times (> 3 months for IBC or > 2 years for bags) or if material from previously opened containers is used, drying is recommended to remove absorbed moisture. Containers stored in cold rooms should be allowed to equalise to normal temperature so that no condensation forms on the pellets.

**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 °C <sup>1)</sup> | Test method  | Unit              | Values <sup>2)</sup> |
|--------------------------------------------------------------|--------------|-------------------|----------------------|
| <b>Properties</b>                                            |              |                   |                      |
| Polymer abbreviation                                         | -            | -                 | <b>PA6/66/136</b>    |
| <b>Mechanical properties</b>                                 |              |                   |                      |
|                                                              |              |                   | <b>dry / cond.</b>   |
| Tensile modulus                                              | ISO 527-1/-2 | MPa               | <b>2400 / 1400</b>   |
| Yield stress, 50 mm/min                                      | ISO 527-1/-2 | MPa               | <b>80 / 48</b>       |
| Yield strain, 50 mm/min                                      | ISO 527-1/-2 | %                 | <b>5 / 5</b>         |
| Nominal strain at break, 50 mm/min                           | ISO 527-1/-2 | %                 | <b>100 / 37</b>      |
| Flexural modulus                                             | ISO 178      | MPa               | <b>2300 / 1400</b>   |
| Flexural strength                                            | ISO 178      | MPa               | <b>100 / 47</b>      |
| Charpy unnotched impact strength (23°C)                      | ISO 179/1eU  | kJ/m <sup>2</sup> | <b>140 / N</b>       |
| Charpy unnotched impact strength (-30°C)                     | ISO 179/1eU  | kJ/m <sup>2</sup> | <b>200 / -</b>       |
| Charpy notched impact strength (23°C)                        | ISO 179/1eA  | kJ/m <sup>2</sup> | <b>7.5 / 8.5</b>     |
| Charpy notched impact strength (-30°C)                       | ISO 179/1eA  | kJ/m <sup>2</sup> | <b>8 / -</b>         |

### **Footnotes**

- 1) If product name or properties don't state otherwise.  
2) The asterisk symbol "\*" signifies inapplicable properties.

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