

**Preliminary
Datasheet****Ultramid®****Aqua UV BK 20592**

09/2009

Modified PA66-GF35
The Chemical Company**Physical form and storage**

Ultramid® is supplied dry and ready to use in moisture-proof packaging in the form of cylindrical or flat pellets. Its bulk density is about 0,7g/cm³. Standard packs are the special 25kg bag and the 1000kg 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air the containers must be stored in dry rooms and always carefully sealed again after portions of material have been withdrawn. Ultramid® can be kept indefinitely in the undamaged bags. Experience has shown that product supplied in IBCs can be stored for about 3 months without any adverse effects on processing properties due to moisture absorption. Containers stored in cold rooms should be allowed to equilibrate to normal temperature so that no condensation forms on the pellets.

Product safety

Ultramid® melts are thermally stable at the usual temperature for PA66, PA6 and PA66/6 up to 310°C and 350°C for PA6/6T and do not give rise to hazards due to molecular degradation or the evolution of gases and vapors. Like all thermoplastic polymers Ultramid® decomposes on exposure to excessive thermal load, e.g. when it is overheated or as a result of cleaning by burning off. In such cases gaseous decomposition products are formed. Decomposition accelerates above 310°C (PA6/6T >350°C) approximately, the initial products formed being mainly carbon monoxide and ammonia, and caprolactam too in the case of Ultramid® PA6. At temperatures above about 350°C (PA6/6T >400°C) small quantities of pungent smelling vapors of aldehydes, amines and other nitrogenous decomposition products are also formed. Further safety information see safety data sheet of the individual product.

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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Preliminary Datasheet ⁴⁾



Typical values for uncoloured product at 23 °C ¹⁾	Test method ²⁾	Unit	Values ³⁾
Properties			
Polymer abbreviation	-	-	Modified PA66-GF35
Density	ISO 1183	kg/m ³	1420
Viscosity number (0.5% in 96 % H ₂ SO ₄)	ISO 307, 1157, 1628	cm ³ /g	150
Processing			
MVR 275 °C/5 kg	ISO 1133	cm ³ /10min	35
Mechanical properties			
Tensile modulus	ISO 527-1/-2	MPa	10700 / -
Stress at break	ISO 527-1/-2	MPa	170 / -
Strain at break	ISO 527-1/-2	%	2.5 / -
Flexural modulus	ISO 178	MPa	9700 / -
Flexural strength	ISO 178	MPa	240 / -
Charpy unnotched impact strength (23°C)	ISO 179/1eU	kJ/m ²	71 / -
Thermal properties			
HDT A (1.80 MPa)	ISO 75-1/-2	°C	235

Footnotes

- 1) If product name or properties don't state otherwise.
- 2) Specimens according to CAMPUS.
- 3) The asterisk symbol "*" signifies inapplicable properties.
- 4) The typical values of preliminary datasheets are not statistically firm.

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