Product Information

# B3G10 SI BK20560

03/2016

**PA6-GF50** 

**Ultramid**<sup>®</sup>

#### Product description

Glass fibre-reinforced injection moulding grade, with excellent surface quality especially suitable for the production of visible parts with very high stiffness. Optimum surface quality is generally obtained at a very high injection speed.

We create chemistry

### 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air the containers must be stored in dry rooms and always carefully sealed again after some of the material has been withdrawn.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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Typical values for uncoloured product at 23 °C <sup>1)</sup>	Test method	Unit	Values <sup>2)</sup>
Properties			
Polymer abbreviation Density Viscosity number (0.5% in 96 % H2SO4)	- ISO 1183 ISO 307, 1157, 1628	- kg/m³ cm³/g	PA6-GF50 1570 135
Processing			
MVR 275 °C/5 kg Melt temperature, injection moulding/extrusion Mould temperature, injection moulding	ISO 1133 - -	cm³/10min °C °C	12 280 - 300 80 - 110
Mechanical properties dry / cond.			
Tensile modulus Stress at break Strain at break Flexural modulus Flexural strength Charpy unnotched impact strength (23°C) Charpy notched impact strength (-30°C) Charpy notched impact strength (-30°C)	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178 ISO 179/1eU ISO 179/1eU ISO 179/1eA ISO 179/1eA	MPa MPa MPa kJ/m <sup>2</sup> kJ/m <sup>2</sup> kJ/m <sup>2</sup>	16500 / 10800 235 / 160 3 / 5 13500 / 9500 340 / 230 95 / 100 85 / - 20 / 25 16 / -
Thermal properties			
HDT A (1.80 MPa) HDT B (0.45 MPa)	ISO 75-1/-2 ISO 75-1/-2	°C °C	200 215

