#### **Product Information**

## **Ultradur**®

## B 4330 G6 HR High Speed



PBT-I-GF30 09/2025

#### **Product Information**

Easy flowing injection-moulding grade containing 30% glass-fibres, for rigid, tough and dimensionally stable technical parts, used in applications with highest demands on hydrolysis resistance such es automotive connectors and housings for electronic units under the hood

The black colored product Ultradur® B4330 G6 HR High Speed BK15045 has a LS coloration (Laser Sensitive) and can be marked with Nd:YAG lasers.

Abbreviated designation according to ISO 1043: PBT-I-GF30

#### **Product safety**

Ultradur® melts are stable at temperatures up to 280°C and do not give rise to hazards due to molecular degradation or the evolution of gases and vapors. Like all thermoplastic polymers, however, Ultradur decomposes on exposure to excessive thermal stresses, e.g. when it is overheated or as a result of cleaning by burning off. At temperatures of > 290 °C can be emitted: carbon monoxide, tetrahydrofuran.

Under special fire conditions traces of other toxic substances are possible. Formation of further decomposition and oxidation products depends upon the fire conditions.

When Ultradur® is properly processed and there is adequate suction at the die no risks to health are to be expected. Additional safety information can be found in the safety data sheets of the individual products. Safety data sheets can be requested from the Ultraplaste Infopoint at ultraplaste.infopoint@basf.com.

#### Physical form and storage

Standard packaging includes the 25-kg-bag, the 1000 kg octabin (octagonal container) or the 1000 kg big bag. Other forms of packaging are possible subject to agreement. All containers are tightly sealed and should be opened only immediately prior to processing. Further precautions for preliminary treatment and drying are described in the processing section of the brochure. The bulk density is about 0,7 to 0,8g/cm3.

Ultradur® can be stored for a longer period of time in dry, well vented rooms without causing problems in processing.

Ultradur® should generally have a moisture content of less than 0,04% when being processed.

In order to ensure reliable production, therefore, pre-drying should generally be the rule and the machine should be loaded via a closed conveyor system. Appropriate equipment is commercially available. Pre-drying is also for the addition of batches, e.g. in the case of inhouse pigmentation.

In order to prevent the formation of condensed water, containers stored in unheated rooms must only be opened when they have attained the temperature prevailing in the processing area. This can possibly take a very long time. Measurements have shown that the interior of a 25-kg bag originally at 5°C had reached the temperature of 20°C in the processing area only after 48 hours.

#### 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 Viscosity number (solution 0,005 g/ml Phenole/1,2 Dichlorbenzol 1:1) black	ISO 1183 ISO 307, 1157, 1628	- kg/m³ cm³/g -	PBT-I-GF30 1500 85 +
Processing			
Melt volume-flow rate MVR at 275 °C and 2.16 kg Melting temperature, DSC Melt temperature, Injection moulding/Extrusion Mould temperature, Injection moulding Molding shrinkage (parallel) Molding shrinkage (normal)	ISO 1133 ISO 11357-1/-3 - - ISO 294-4 ISO 294-4	cm³/10min °C °C °C °C %	28 223 250 - 280 60 - 100 0.40 1.00
Flammability			
Burning Behav. at thickness d = 1.5 mm Burning Behav. at thickness d = 0.75 mm	IEC 60695-11-10 IEC 60695-11-10	class class	HB HB
Mechanical properties			
Tensile modulus Stress at break Strain at break 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 modulus Flexural strength	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 179/1eU ISO 179/1eU ISO 179/1eA ISO 179/1eA ISO 178	MPa MPa % kJ/m² kJ/m² kJ/m² MPa MPa	8880 130 2.6 68 52 9 7.8 8700 205
Thermal properties			
HDT A (1.80 MPa) HDT B (0.45 MPa)	ISO 75-1/-2 ISO 75-1/-2	°C °C	205 223

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