

Product Information **Ultradur®**

B 4300 G3 BK05110

10/2023

PBT-GF15



BASF
We create chemistry

Product description

Ultradur® B 4300 G3 BK05110 is pigmented black, easy flowing injection molding PBT with 15% glass fiber reinforcement for rigid, tough, and dimensionally stable parts.

Typical applications include timer dials, toggles, knobs, parts for thermostats, oven-door handles, toaster housings and grills.

Injection Molding

PREPROCESSING

Pre/Post-processing, max. allowed water content .04

Pre/Post-processing, Pre-drying, Temperature 100 - 120

Pre/Post-processing, Pre-drying, Time 4

PROCESSING

injection molding, Melt temperature, range 250 - 270

injection molding, Mold temperature, range 60 - 100

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.

Product Information

Typical values for uncoloured product at 23 °C ¹⁾	Test method	Unit	Values ²⁾
Properties			
Polymer abbreviation	-	-	PBT-GF15
Filler content: Glass fiber (GF), glass balls (GB), Mineral (M)	-	%	GF15
Density	ISO 1183	kg/m ³	1400
Water absorption, 24 h in water, 23 °C	ISO 62	%	0.2
Moisture absorption, equilibrium 23°C/50% r.h.	similar to ISO 62	%	0.2
Water absorption, equilibrium in water at 23°C	similar to ISO 62	%	0.4
Processing			
Melt temperature, Injection moulding/Extrusion	-	°C	250 - 270
Mould temperature, Injection moulding	-	°C	60 - 100
Pre/Post-processing, max. allowed water content	-	%	0.04
Pre/Post-processing, Pre-drying, Temperature	-	°C	100 - 120
Pre/Post-processing, Pre-drying, Time	-	h	4
Mechanical properties			
Tensile modulus	ISO 527-1/-2	MPa	5700
Yield stress, 50 mm/min	ISO 527-1/-2	MPa	99
Yield strain, 50 mm/min	ISO 527-1/-2	%	3.3
Flexural modulus	ISO 178	MPa	5290
Charpy unnotched impact strength (23°C)	ISO 179/1eU	kJ/m ²	5.4
Izod notched impact strength (23°C)	ISO 180/A	kJ/m ²	5.6
Thermal properties			
Melting temperature, DSC	ISO 11357-1/-3	°C	224
HDT A (1.80 MPa)	ISO 75-1/-2	°C	196

Footnotes

1) If product name or properties don't state otherwise.

2) The asterisk symbol "*" signifies inapplicable properties.

BASF Corporation

48192 Wyandotte, USA