

# Ultradur® B 4300 G4 BK5110

## Polybutylene Terephthalate

### BASF Corporation

**Product Description**  
Ultradur B 4300 G4 BK5110 is an easy flowing, pigmented black, injection molding PBT with 20% glass fiber reinforcement for rigid, tough, and dimensionally stable parts.

General			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Filler / Reinforcement	• Glass Fiber Reinforcement, 20% Filler by Weight		
Additive	• Lubricant		
Features	• Good Dimensional Stability • Good Flow	• Good Toughness • Lubricated	• Medium Rigidity
Uses	• Automotive Applications • Automotive Electronics	• Automotive Exterior Parts • Cams	• Electrical/Electronic Applications • Housings
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	1450	kg/m <sup>3</sup>	ISO 1183 <sup>2</sup>
Water Absorption			
24 hr, 23°C	0.20	%	ISO 62
Saturation	0.40	%	ISO 62 <sup>2</sup>
Equilibrium	0.20	%	ISO 62 <sup>2</sup>
Viscosity Number	110	cm <sup>3</sup> /g	ISO 1628

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	107	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain (Break)	3.5	%	ISO 527-2 <sup>2</sup>
Flexural Modulus (23°C)	6100	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	6.00	kJ/m <sup>2</sup>	ISO 180

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	199	°C	ISO 75-2 <sup>2</sup>
Melting Temperature (DSC)	223	°C	ISO 3146

Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.50 mm)	HB		UL 94

UL 746	Nominal Value	Unit	Test Method
RTI Str (1.50 mm)	130	°C	UL 746
RTI Imp (1.50 mm)	125	°C	UL 746
RTI Elec (1.50 mm)	130	°C	UL 746

Injection	Nominal Value	Unit
Drying Temperature	100 to 120	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.040	%
Processing (Melt) Temp	250 to 270	°C
Mold Temperature	60.0 to 100	°C
Injection Rate	Fast	
Back Pressure	< 1.00	MPa

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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