

# Ultradur® B 4300 G2 BK5110

Polybutylene Terephthalate  
BASF Corporation

Product Description			
Ultradur B 4300 G2 BK5110 is a pigmented black, easy flowing injection molding PBT with 10% glass fiber reinforcement for rigid, tough, and dimensionally stable parts.			
General			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Filler / Reinforcement	• Glass Fiber Reinforcement, 10% Filler by Weight		
Additive	• Lubricant		
Features	• Good Dimensional Stability • Good Flow • Good Toughness	• High Rigidity • Lubricated • Medium Rigidity	• Semi Crystalline
Uses	• Automotive Applications • Automotive Electronics	• Cams • Electrical/Electronic Applications	• Handles • Household Goods
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		
Physical			
Density	Nominal Value	Unit	Test Method
	1370	kg/m <sup>3</sup>	ISO 1183 <sup>2</sup>
Melt volume-flow rate (250°C/2.16 kg)	16.0	cm <sup>3</sup> /10min	ISO 1133 <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	116	cm <sup>3</sup> /g	ISO 1628
Mechanical			
	Nominal Value	Unit	Test Method
Tensile modulus	4200	MPa	ISO 527-2 <sup>2</sup>
Tensile Stress (Break)	85.0	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain (Break)	3.5	%	ISO 527-2 <sup>2</sup>
Flexural Modulus (23°C)	4200	MPa	ISO 178
Impact			
	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	4.70	kJ/m <sup>2</sup>	ISO 180
Thermal			
	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	185	°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)	125	°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 Pressure	3.50 to 12.5	MPa	
Injection Rate	Fast		
Back Pressure	< 1.00	MPa	

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://www.kedisujiao.com)

备注：以上原料物性数据由厂家发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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Saturday, December 12, 2009

**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.

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