

# Ultradur® B 4300 G6

## Polybutylene Terephthalate

### BASF Corporation

**Product Description**  
Ultradur B 4300 G6 is an easy flowing injection molding PBT with 30% glass fiber reinforcement for rigid, tough, and dimensionally stable parts.

General			
Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight		
Additive	• Lubricant	• Mold Release	
Features	• Good Dimensional Stability • Good Flow • Good Toughness	• High Rigidity • Lubricated • Medium Rigidity	• Semi Crystalline
Uses	• Automotive Applications • Automotive Electronics	• Automotive Exterior Parts • Electrical/Electronic Applications	• Protective Coverings
Agency Ratings	• NSF 14	• NSF 61	• USP Class VI
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Injection Molding		
Multi-Point Data	• Creep Modulus vs. Time (ISO 11403-1) • Isochronous Stress vs. Strain (ISO 11403-1)	• Isothermal Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1)	• Shear Modulus vs. Temperature (ISO 11403-2) • Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Nominal Value	Unit	Test Method
Specific Gravity	--	1.53 g/cm <sup>3</sup>	ASTM D792
	--	1530 kg/m <sup>3</sup>	ISO 1183 <sup>2</sup>
Melt volume-flow rate (250°C/2.16 kg)		11.0 cm <sup>3</sup> /10min	ISO 1133 <sup>2</sup>
Molding Shrinkage			
Flow: 3.18 mm		0.30 %	ASTM D955
Across Flow		0.34 %	ISO 294-4
Flow		1.1 %	ISO 294-4
Water Absorption			
Saturation		0.40 %	ASTM D570 ISO 62 <sup>2</sup>
Equilibrium, 50% RH		0.20 %	ASTM D570
Equilibrium		0.20 %	ISO 62 <sup>2</sup>
Viscosity Number		102 cm <sup>3</sup> /g	ISO 1628

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus		10000 MPa	ISO 527-2 <sup>2</sup>
Tensile Strength			
Break, 23°C		135 MPa	ASTM D638
Break, -40°C		204 MPa	ISO 527-2
Break		135 MPa	ISO 527-2 <sup>2</sup>
Tensile Elongation			
Break, 23°C		2.5 %	ASTM D638
Break		2.5 %	ISO 527-2 <sup>2</sup>
Tensile Creep Modulus (1000 hr)		7500 MPa	ISO 899-1 <sup>2</sup>
Flexural Modulus			
23°C		8070 MPa	ASTM D790
23°C		8800 MPa	ISO 178
Flexural Strength (23°C)		200 MPa	ISO 178

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！

**Ultradur® B 4300 G6**  
**Polybutylene Terephthalate**  
**BASF Corporation**

Saturday, December 12, 2009

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	11.0	kJ/m <sup>2</sup>	ISO 179/1eA <sup>2</sup>
Charpy Unnotched Impact Strength			ISO 179
-30°C	74	kJ/m <sup>2</sup>	
23°C	67	kJ/m <sup>2</sup>	
Notched Izod Impact (23°C)	91.0	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	220	°C	ASTM D648
0.45 MPa	220	°C	ISO 75-2 <sup>2</sup>
1.8 MPa, Unannealed	210	°C	ASTM D648
1.8 MPa	215	°C	ISO 75-2 <sup>2</sup>
Melting Temperature	223	°C	ASTM D3418 ISO 3146
CLTE - Flow	0.000025	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity <sup>3</sup>	1.0E+13	ohms	ASTM D257 IEC 60093 <sup>2</sup>
Volume Resistivity			
1.50 mm	> 1.0E+13	ohm·cm	ASTM D257
--	> 1.0E+11	ohm·m	IEC 60093 <sup>2</sup>
Relative Permittivity			IEC 60250 <sup>2</sup>
100 Hz	4.00		
1 MHz	3.80		
Dissipation Factor			IEC 60250 <sup>2</sup>
100 Hz	25		
1 MHz	170		
Comparative tracking index	375		IEC 60112 <sup>2</sup>
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.50 mm)		HB	UL 94
UL 746	Nominal Value	Unit	Test Method
RTI Imp (1.50 mm)	105	°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.

<sup>3</sup> 1.5 mm

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！