

# Ultradur® B 4300 G2 High Speed Unc.

## Polybutylene Terephthalate

### Product Description

Ultradur B 4300 G2 High Speed Unc. is a high flow, fast cycling with low warpage, 10% glass filled, pigmented black, injection molding PBT for industrial parts, rigid tough and dimensional stable applications.

### General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 10% Filler by Weight
Features	• Fast Molding Cycle • Good Flow • Low Warpage
Uses	• Automotive Applications • Cams • Handles • Automotive Electronics • Electrical/Electronic Applications • Household Goods
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1370	kg/m <sup>3</sup>	ISO 1183 <sup>2</sup>
Melt volume-flow rate (250°C/2.16 kg)	30.0	cm <sup>3</sup> /10min	ISO 1133 <sup>2</sup>
Molding Shrinkage			ISO 294-4
Across Flow	0.90	%	
Flow	1.0	%	
Water Absorption			ISO 62 <sup>2</sup>
Saturation	0.40	%	
Equilibrium	0.20	%	
Viscosity Number	105	cm <sup>3</sup> /g	ISO 1628

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	4500	MPa	ISO 527-2 <sup>2</sup>
Tensile Stress (Break)	85.0	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain (Break)	3.7	%	ISO 527-2 <sup>2</sup>

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	4.00	kJ/m <sup>2</sup>	ISO 179/1eA <sup>2</sup>
Charpy Unnotched Impact Strength			ISO 179
-30°C	27	kJ/m <sup>2</sup>	
23°C	26	kJ/m <sup>2</sup>	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 <sup>2</sup>
0.45 MPa	220	°C	
1.8 MPa	200	°C	
Melting Temperature (DSC)	223	°C	ISO 3146
CLTE - Flow	0.000045	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Surface resistivity	1.0E+13	ohms	IEC 60093 <sup>2</sup>
Volume resistivity	> 1.0E+11	ohm·m	IEC 60093 <sup>2</sup>
Relative Permittivity			IEC 60250 <sup>2</sup>
100 Hz	3.60		
1 MHz	3.60		
Dissipation Factor			IEC 60250 <sup>2</sup>
100 Hz	12		
1 MHz	150		
Comparative tracking index	300		IEC 60112 <sup>2</sup>

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)

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**BASF Corporation**

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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