

# Ultradur® B 4300 G6 HR BK15045

Polybutylene Terephthalate

BASF Corporation

## Product Description

Ultradur B 4300 G6 HR BK15045 is a hydrolysis resistant, pigmented black 30% fiberglass reinforced PBT, exhibiting good balance of properties and flow.

Ultradur B 4300 G6 HR BK15045 was developed for automotive connectors designed to meet USCAR Class III requirements.

## General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight
Features	• Good Flow • Hydrolysis Resistant
Uses	• Automotive Applications • Connectors
Agency Ratings	• USCAR III
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm <sup>3</sup>	ISO 1183
Viscosity Number	105	cm <sup>3</sup> /g	ISO 1628

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	8500	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	130	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.5	%	ISO 527-2
Flexural Modulus (23°C)	8100	MPa	ISO 178
Flexural Strength (23°C)	188	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength			ISO 179
-30°C	62	kJ/m <sup>2</sup>	
23°C	69	kJ/m <sup>2</sup>	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ISO 75-2/A
Melting Temperature (DSC)	223	°C	ISO 3146

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 275	°C
Mold Temperature	40.0 to 70.0	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	

## Notes

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

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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