

## Ultradur® B 4300 G4 LS High Speed BK15045

### BASF Corporation - Polybutylene Terephthalate

Monday, November 4, 2019

#### **General Information**

#### **Product Description**

Ultradur B 4300 G4 LS High Speed BK15045 is a high flow, fast cycling with low warpage, 20% glass filled, pigmented black, injection molding PBT for industrial parts, rigid tough and dimensional stable applications.

#### **Applications**

Typical applications include windshield wiper arms, printed circuit boards, housing, consoles, contact carriers, covers.

General			
Material Status	Commercial: Active		
Availability	North America		
Filler / Reinforcement	Glass Fiber, 20% Filler by Weight		
Features	<ul><li>Fast Molding Cycle</li><li>Good Dimensional Stability</li></ul>	<ul><li> Good Rigidity</li><li> Good Toughness</li></ul>	<ul><li>High Flow</li><li>Low Warpage</li></ul>
Uses	<ul><li>Automotive Applications</li><li>Housings</li></ul>	<ul><li>Industrial Parts</li><li>Printed Circuit Boards</li></ul>	Protective Coverings
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Automotive Specifications	• GM QK 006613 R Color: BK15045		
Appearance	Black		
Forms	• Pellets		
Processing Method	Injection Molding		

ASTM & ISO Properties 1					
Physical	Nominal Value	Unit	Test Method		
Density	1.45	g/cm³	ISO 1183		
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	28	cm³/10min	ISO 1133		
Water Absorption (24 hr, 73°F)	0.20	%	ISO 62		
Water Absorption (Saturation, 73°F)	0.40	%	ISO 62		
Water Absorption (Equilibrium, 73°F, 50% RH)	0.20	%	ISO 62		
Viscosity Number (Reduced Viscosity)	100.0	ml/g	ISO 1628		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus (73°F)	1.00E+6	psi	ISO 527-2		
Tensile Stress (Break, 73°F)	16700	psi	ISO 527-2		
Tensile Strain (Break, 73°F)	3.0	%	ISO 527-2		
Impact	Nominal Value	Unit	Test Method		
Charpy Notched Impact Strength (73°F)	3.0	ft·lb/in²	ISO 179		
Charpy Unnotched Impact Strength (73°F)	19	ft·lb/in²	ISO 179		
Notched Izod Impact Strength (73°F)	2.8	ft·lb/in²	ISO 180		
Thermal	Nominal Value	Unit	Test Method		
Heat Deflection Temperature (66 psi, Unannealed)	428	°F	ISO 75-2/B		
Heat Deflection Temperature (264 psi, Unannealed)	392	°F	ISO 75-2/A		
Melting Temperature (DSC)	433	°F	ISO 3146		



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Processing Information				
Injection	Nominal Value	Unit		
Drying Temperature	212 to 248	°F		
Drying Time	4.0	hr		
Suggested Max Moisture	0.040	%		
Processing (Melt) Temp	482 to 518	°F		
Mold Temperature	140 to 212	°F		
Injection Pressure	508 to 1810	psi		
Injection Rate	Fast			
Back Pressure	< 145	psi		

#### **Notes**

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