# Ultradur® B 4300 G4 LS High Speed BK15045

### Polybutylene Terephthalate

#### **BASF** Corporation

#### Message:

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.

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

Features   Fast Molding Cycle   Good Dimensional Stability   Good Toughness   High Rigidity   Low Warpage    Uses   Automotive Applications   Housings   Printed Circuit Boards   Protective Coverings    Agency Ratings   EC 1907/2006 (REACH)   ROHS Compliant   Appearance   Black   Rohs Compliant   Appearance   Rohs Compliant   Appeara	General Information			
Good Toughness High Flow High Rigidity Low Warpage  USes Automotive Applications Housings Printed Circuit Boards Protective Coverings  EC 1907/2006 (REACH) RoHS Compliance RoHS Compliance RoHS Compliant  Appearance Black Forms Pellets Processing Method Injection Molding Physical Nominal Value Unit Test Method  Tensile Modulus (23°C) ToS0 RoHS Qard RoHS Q	Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
High Flow   High Rigidity   Low Warpage	Features	Fast Molding Cycle		
High Flow   High Rigidity		Good Dimensional Stability		
High Rigidity Low Warpage  Water Manage Applications Housings Printed Circuit Boards Protective Coverings  EC 1907/2006 (REACH)  ROHS Compliance ROHS Compliance ROHS Compliant Appearance Black Forms Pellets Processing Method Injection Molding Physical Nominal Value Unit Test Method Density 1.45 So 28.0 cm² 1050 1133 Mechanical Nominal Value Unit Test Method Tensile Modulus (23°C) 28.0 cm² 100min 150 1133 Mechanical Nominal Value Unit Test Method Tensile Modulus (23°C) Tensile Stress (Break, 23°C) 115 MPa 150 527-2 Tensile Strain (Break, 23°C) 3.0 We 105 527-2 Thermal Nominal Value Unit Test Method Heat Deflection Temperature 0.45 MPa, Unannealed 220 °C 150 75-2/A		Good Toughness		
Low Warpage   Low Sand Sand Sand Sand Sand Sand Sand Sand		High Flow		
Automotive Applications		High Rigidity		
Housings		Low Warpage		
Housings	Uses	Automotive Applications		
Printed Circuit Boards   Protective Coverings   Protective Compliant   Protective Coverings   Protective Compliant   Protective Coverings   Protective Coverin				
Agency Ratings         EC 1907/2006 (REACH)           RoHS Compliance         RoHS Compliant           Appearance         Black           Forms         Pellets           Processing Method         Injection Molding           Physical         Nominal Value         Unit         Test Method           Density         1.45         g/cm³         ISO 1183           Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)         28.0         cm³/10min         ISO 1133           Mechanical         Nominal Value         Unit         Test Method           Tensile Modulus (23°C)         7050         MPa         ISO 527-2           Tensile Strain (Break, 23°C)         115         MPa         ISO 527-2           Thermal         Nominal Value         Unit         Test Method           Heat Deflection Temperature         Unit         Test Method           0.45 MPa, Unannealed         220         °C         ISO 75-2/B           1.8 MPa, Unannealed         200         °C         ISO 75-2/B		Printed Circuit Boards		
RoHS Compliance         RoHS Compliant           Appearance         Black           Forms         Pellets           Processing Method         Injection Molding           Physical         Nominal Value         Unit         Test Method           Density         1.45         g/cm³         ISO 1183           Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)         28.0         cm³/10min         ISO 1133           Mechanical         Nominal Value         Unit         Test Method           Tensile Modulus (23°C)         7050         MPa         ISO 527-2           Tensile Strain (Break, 23°C)         3.0         %         ISO 527-2           Thermal         Nominal Value         Unit         Test Method           Heat Deflection Temperature         Unit         Test Method           0.45 MPa, Unannealed         220         °C         ISO 75-2/B           1.8 MPa, Unannealed         200         °C         ISO 75-2/A		Protective Coverings		
RoHS Compliance         RoHS Compliant           Appearance         Black           Forms         Pellets           Processing Method         Injection Molding           Physical         Nominal Value         Unit         Test Method           Density         1.45         g/cm³         ISO 1183           Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)         28.0         cm³/10min         ISO 1133           Mechanical         Nominal Value         Unit         Test Method           Tensile Modulus (23°C)         7050         MPa         ISO 527-2           Tensile Strain (Break, 23°C)         3.0         %         ISO 527-2           Thermal         Nominal Value         Unit         Test Method           Heat Deflection Temperature         Unit         Test Method           0.45 MPa, Unannealed         220         °C         ISO 75-2/B           1.8 MPa, Unannealed         200         °C         ISO 75-2/A				
Appearance Black Forms Pellets Processing Method Injection Molding Physical Nominal Value Unit Test Method Density 1.45 g/cm³ ISO 1183 Melt Volume-Flow Rate (MVR) (250°C/2.16 kg) 28.0 cm³/10min ISO 1133 Mechanical Nominal Value Unit Test Method Tensile Modulus (23°C) 7050 MPa ISO 527-2 Tensile Stress (Break, 23°C) 115 MPa ISO 527-2 Tensile Strain (Break, 23°C) 3.0 % ISO 527-2 Thermal Nominal Value Unit Test Method Heat Deflection Temperature  0.45 MPa, Unannealed 220 °C ISO 75-2/B 1.8 MPa, Unannealed 200 °C ISO 75-2/B	Agency Ratings	EC 1907/2006 (REACH)		
Forms         Pellets           Processing Method         Injection Molding           Physical         Nominal Value         Unit         Test Method           Density         1.45         g/cm³         ISO 1183           Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)         28.0         cm³/10min         ISO 1133           Mechanical         Nominal Value         Unit         Test Method           Tensile Modulus (23°C)         7050         MPa         ISO 527-2           Tensile Stress (Break, 23°C)         115         MPa         ISO 527-2           Tensile Strain (Break, 23°C)         3.0         %         ISO 527-2           Thermal         Nominal Value         Unit         Test Method           Heat Deflection Temperature         Unit         Test Method           0.45 MPa, Unannealed         220         °C         ISO 75-2/B           1.8 MPa, Unannealed         200         °C         ISO 75-2/A	RoHS Compliance	RoHS Compliant		
Processing Method  Physical  Nominal Value  Unit  Test Method  Density  1.45  Q/cm³  ISO 1183  Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)  Z8.0  Cm³/10min  ISO 1133  Mechanical  Nominal Value  Unit  Test Method  Tensile Modulus (23°C)  7050  MPa  ISO 527-2  Tensile Stress (Break, 23°C)  115  MPa  ISO 527-2  Tensile Strain (Break, 23°C)  3.0  %  ISO 527-2  Thermal  Nominal Value  Unit  Test Method	Appearance	Black		
Physical         Nominal Value         Unit         Test Method           Density         1.45         g/cm³         ISO 1183           Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)         28.0         cm³/10min         ISO 1133           Mechanical         Nominal Value         Unit         Test Method           Tensile Modulus (23°C)         7050         MPa         ISO 527-2           Tensile Stress (Break, 23°C)         115         MPa         ISO 527-2           Tensile Strain (Break, 23°C)         3.0         %         ISO 527-2           Thermal         Nominal Value         Unit         Test Method           Heat Deflection Temperature         0.45 MPa, Unannealed         220         °C         ISO 75-2/B           1.8 MPa, Unannealed         200         °C         ISO 75-2/A	Forms	Pellets		
Density       1.45       g/cm³       ISO 1183         Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)       28.0       cm³/10min       ISO 1133         Mechanical       Nominal Value       Unit       Test Method         Tensile Modulus (23°C)       7050       MPa       ISO 527-2         Tensile Stress (Break, 23°C)       115       MPa       ISO 527-2         Tensile Strain (Break, 23°C)       3.0       %       ISO 527-2         Thermal       Nominal Value       Unit       Test Method         Heat Deflection Temperature       0.45 MPa, Unannealed       220       °C       ISO 75-2/B         1.8 MPa, Unannealed       200       °C       ISO 75-2/A	Processing Method	Injection Molding		
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)         28.0         cm³/10min         ISO 1133           Mechanical         Nominal Value         Unit         Test Method           Tensile Modulus (23°C)         7050         MPa         ISO 527-2           Tensile Stress (Break, 23°C)         115         MPa         ISO 527-2           Tensile Strain (Break, 23°C)         3.0         %         ISO 527-2           Thermal         Nominal Value         Unit         Test Method           Heat Deflection Temperature         220         °C         ISO 75-2/B           1.8 MPa, Unannealed         200         °C         ISO 75-2/A	Physical	Nominal Value	Unit	Test Method
kg) 28.0 cm³/10min ISO 1133  Mechanical Nominal Value Unit Test Method  Tensile Modulus (23°C) 7050 MPa ISO 527-2  Tensile Stress (Break, 23°C) 115 MPa ISO 527-2  Tensile Strain (Break, 23°C) 3.0 % ISO 527-2  Thermal Nominal Value Unit Test Method  Heat Deflection Temperature  0.45 MPa, Unannealed 220 °C ISO 75-2/B  1.8 MPa, Unannealed 200 °C ISO 75-2/A	Density	1.45	g/cm³	ISO 1183
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Heat Deflection Temperature  0.45 MPa, Unannealed 220 °C ISO 75-2/B  1.8 MPa, Unannealed 200 °C ISO 75-2/A	Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
0.45 MPa, Unannealed       220       °C       ISO 75-2/B         1.8 MPa, Unannealed       200       °C       ISO 75-2/A	Thermal	Nominal Value	Unit	Test Method
1.8 MPa, Unannealed 200 °C ISO 75-2/A	Heat Deflection Temperature			
	0.45 MPa, Unannealed	220	°C	ISO 75-2/B
Melting Temperature (DSC) 223 °C ISO 3146	1.8 MPa, Unannealed	200	°C	ISO 75-2/A
	Melting Temperature (DSC)	223	°C	ISO 3146

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## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

