



Ultradur® B 4300 G6 LS High Speed BK15045

BASF Corporation - Polybutylene Terephthalate

Monday, November 4, 2019

General Information

Product Description

Ultradur B 4300 G6 LS High Speed BK15045 is a high flow, fast cycling with low warpage, 30% 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, 30% Filler by Weight		
Features	• Fast Molding Cycle • Good Dimensional Stability	• Good Rigidity • Good Toughness	• High Flow • Low Warpage
Uses	• Automotive Applications • Housings	• Industrial Parts • Printed Circuit Boards	• Protective Coverings
Agency Ratings	• EC 1907/2006 (REACH)		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• FORD WSF-M4D737-A Color: Black	• GM QK 006615 R Color: BK15045	
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.54	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	27	cm ³ /10min	ISO 1133
Viscosity Number (Reduced Viscosity)	89.0	ml/g	ISO 1628
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	1.43E+6	psi	ISO 527-2
Tensile Stress (Break, 73°F)	20300	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.5	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	428	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	401	°F	ISO 75-2/A
Melting Temperature (DSC)	433	°F	ISO 3146

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

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Injection	Nominal Value	Unit
Injection Rate	Fast	
Back Pressure	< 145	psi

Notes

¹ Typical properties: these are not to be construed as specifications.