

Ultradur® B 4300 G6 LS High Speed BK15045

Polybutylene Terephthalate

BASF Corporation

Message:

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 Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Fast Molding Cycle		
	Good Dimensional Stability		
	Good Toughness		
	High Flow		
	High Rigidity		
	Low Warpage		
Uses	Automotive Applications		
	Housings		
	Industrial Parts		
	Printed Circuit Boards		
	Protective Coverings		
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	1.54	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	27.0	cm ³ /10min	ISO 1133
Viscosity Number (Reduced Viscosity)	89.0	ml/g	ISO 1628
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9850	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	140	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	%	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	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 270	°C	
Mold Temperature	60.0 to 100	°C	
Injection Pressure	3.50 to 12.5	MPa	
Injection Rate	Fast		
Back Pressure	< 1.00	MPa	

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