

Ultradur® B 4300 G4 BK5110

Polybutylene Terephthalate

BASF Corporation

Message:

Ultradur B 4300 G4 BK5110 is an easy flowing, pigmented black, injection molding PBT with 20% glass fiber reinforcement for rigid, tough, and dimensionally stable parts.

Applications

Typical applications include car door handles, housings for small electric motors, headlight retainers and drum controllers.

General Information			
UL YellowCard	E36632-101287333	E41871-233777	
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Dimensional Stability		
	Good Flow		
	Good Toughness		
	High Rigidity		
Uses	Automotive Applications		
	Electric Motor Housings		
	Handles		
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/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr	0.20	%	
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Viscosity Number (Reduced Viscosity)	110.0	ml/g	ISO 1628
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	107	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.5	%	ISO 527-2
Flexural Modulus (23°C)	6100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	6.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	199	°C	ISO 75-2/A
Melting Temperature (DSC)	223	°C	ISO 3146
RTI Elec			UL 746
0.750 mm	130	°C	
1.50 mm	130	°C	
3.00 mm	130	°C	
RTI Imp			UL 746
0.750 mm	125	°C	
1.50 mm	125	°C	
3.00 mm	125	°C	
RTI Str			UL 746
0.750 mm	130	°C	
1.50 mm	130	°C	
3.00 mm	140	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
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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