

Ultradur® B 4300 G3 BK5110

Polybutylene Terephthalate

BASF Corporation

Message:

Ultradur B 4300 G3 BK5110 is pigmented black, easy flowing injection molding PBT with 15% glass fiber reinforcement for rigid, tough, and dimensionally stable parts.

Applications

Typical applications include timer dials, toggles, knobs, parts for thermostats, oven-door handles, toaster housings and grills.

General Information			
UL YellowCard	E41871-528070	E36632-101287332	
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight		
Features	Good Dimensional Stability		
	Good Flow		
	Good Toughness		
	High Rigidity		
Uses	Electrical/Electronic Applications		
	Handles		
	Housings		
	Knobs		
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	1.42	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	22.0	cm³/10min	ISO 1133
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)	113.0	ml/g	ISO 1628
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5700	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	93.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.8	%	ISO 527-2
Flexural Modulus (23°C)	5200	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m ²	ISO 179
Notched Izod Impact Strength (23°C)	5.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	190	°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
1.50 mm	105	°C	
3.00 mm	105	°C	
RTI Str (3.00 mm)	140	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.750 mm	HB		
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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