

Ultradur® B 4040 G3 HT BK5830

Polybutylene Terephthalate

BASF Corporation

Product Description

Ultradur B 4040 G3 HT BK5830 is a 15% glass filled, pigmented black, injection molding PBT. It is a resin for molding household appliances and equipment which must be resistant to chemicals and other media, and be capable of producing an excellent surface finish. In addition, some types of kitchen equipment have to withstand high temperatures. B4040G3 HT's resistance to high sustained-service temperatures makes it a material of choice when things get hot. Internal testing demonstrates that the product meets the UL94 HB (0.8 mm thickness) flame requirements

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 15% Filler by Weight
Features	• Good Surface Finish
Uses	• Appliance Components • Handles
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1420	kg/m ³	ISO 1183 ²
Molding Shrinkage - Across Flow	0.50	%	ISO 294-4

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	6000	MPa	ISO 527-2 ²
Tensile Stress (Break)	70.0	MPa	ISO 527-2 ²
Tensile Strain (Break)	1.5	%	ISO 527-2 ²
Flexural Modulus (23°C)	5500	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	4.00	kJ/m ²	ISO 180

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	170	°C	ISO 75-2 ²
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	0.015	%
Processing (Melt) Temp	250 to 275	°C
Mold Temperature	60.0 to 100	°C
Injection Pressure	3.50 to 12.5	MPa
Injection Rate	Fast	
Back Pressure	< 1.00	MPa

Notes

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

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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