

Ultradur® B 4030 G6

Polybutylene Terephthalate

BASF Corporation

Message:

30% glass-fibre reinforced Impact-modified injection-moulding grade for technical parts; eg plug-and-socket connectors, housings.

General Information			
UL YellowCard	E41871-101041573		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Impact Modifier		
Features	Impact Modified		
Uses	Connectors		
	Engineering Parts		
	Housings		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PBT-GF30		
Physical	Nominal Value	Unit	Test Method
Density	1.48	g/cm³	ISO 1183
Apparent Density	0.70 to 0.80	g/cm³	
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	2.20	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.1	%	
Flow	0.37	%	
Water Absorption			ISO 62
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Viscosity Number ¹	105	cm³/g	ISO 307
Mold Shrinkage ²			
free, longitudinal	0.20	%	
free, transverse	1.0	%	
Maximum Service Temperature - short cycle operation	200	°C	
Flammability by Electrical Sources of Ignition - Method BH (4.00 mm)	HB		IEC 60707
Automotive Materials (> 1.00 mm)	Passed		FMVSS 302

Screw Speed	< 250	mm/sec	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	190	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9200	MPa	ISO 527-2
Tensile Stress (Break)	125	MPa	ISO 527-2
Tensile Strain (Break)	3.6	%	ISO 527-2
Flexural Modulus	7500	MPa	ISO 178
Flexural Stress	200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	16	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	83	kJ/m ²	
23°C	80	kJ/m 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	223	°C	ISO 11357-3
CLTE - Flow (23 to 80°C)	2.0E-5 to 3.0E-5	cm/cm/°C	ISO 11359-2
Specific Heat	1500	J/kg/°C	
Thermal Conductivity	0.27	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	3.0E+15	ohms · cm	IEC 60093
Relative Permittivity			IEC 60250
100 Hz	3.90		
1 MHz	3.70		
Dissipation Factor			IEC 60250
100 Hz	2.7E-3		
1 MHz	0.019		
Comparative Tracking Index			IEC 60112
Solution A	375	V	
Solution B	100	V	
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	HB		
1.60 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 120	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.040	%	

Hopper Temperature	80.0	°C
Rear Temperature	250	°C
Middle Temperature	255	°C
Front Temperature	260	°C
Nozzle Temperature	260	°C
Processing (Melt) Temp	250 to 275	°C
Mold Temperature	60.0 to 100	°C

NOTE

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| 1. | solution 0,005 g/ml Phenole/1,2
Dichlorbenzol 1:1 |
| 2. | plate with film gate 150*150*3
mm ³ |

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