

Ultradur® B 4300 G4 High Speed

Polybutylene Terephthalate

BASF Corporation

Message:

Easy flowing injection molding grade with 20 % glass fibers; for rigid, tough and dimensionally stable technical parts (eg car-door handles, housings for small electric motors, headlamp retainers and drum controllers).

General Information			
UL YellowCard	E36632-101287333	E41871-101983115	
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Dimensional Stability		
	Good Flow		
	Good Toughness		
	High Rigidity		
Uses	Automotive Applications		
	Electric Motor Housings		
	Engineering Parts		
	Handles		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PBT-GF20		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm³	ISO 1183
Apparent Density	0.70 to 0.80	g/cm³	
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	22.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.1	%	
Flow	0.47	%	
Water Absorption			ISO 62
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Viscosity Number ¹	100	cm³/g	ISO 307

Mold Shrinkage ²			
free, longitudinal	0.30	%	
free, transverse	1.3	%	
Maximum Service Temperature - short cycle operation	210	°C	
Automotive Materials (> 1.00 mm)	Passed		FMVSS 302
Screw Speed	< 250	mm/sec	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7000	MPa	ISO 527-2
Tensile Stress (Break)	115	MPa	ISO 527-2
Tensile Strain (Break)	3.3	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	40	kJ/m ²	
23°C	45	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	195	°C	ISO 75-2/A
Melting Temperature	223	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms · cm	IEC 60093
Relative Permittivity			IEC 60250
100 Hz	3.70		
1 MHz	3.70		
Dissipation Factor			IEC 60250
100 Hz	1.2E-3		
1 MHz	0.015		
Comparative Tracking Index (Solution A)	300	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (1.60 mm)	HB		IEC 60695-11-10, -20
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	230 to 275	°C
Mold Temperature	60.0 to 100	°C

NOTE		
1.	solution 0,005 g/ml Phenole/1,2 Dichlorbenzol 1:1	
2.	plate with film gate 150*150*3 mm³	

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