

Ultradur® B 4330 G6 HR

Polybutylene Terephthalate

BASF Corporation

Message:

Injection-moulding grade containing 30% glass-fibres, for rigid,tough and dimensionally stable technical parts, used in applications with highest demands on hydrolysis resistance such es automotive connectors and housings for electronic units under the hood.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Dimensional Stability		
	Good Toughness		
	High Rigidity		
	Hydrolysis Resistant		
Uses	Automotive Applications		
	Automotive Under the Hood		
	Connectors		
	Engineering Parts		
	Housings		
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-I-GF30		
Physical	Nominal Value	Unit	Test Method
Density	1.49	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/10.0 kg)	40.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.1	%	
Flow	0.50	%	
Water Absorption			ISO 62
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Viscosity Number ¹	108	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	8500	MPa	ISO 527-2
Tensile Stress (Break)	120	MPa	ISO 527-2
Tensile Strain (Break)	3.4	%	ISO 527-2
Flexural Modulus	7860	MPa	ISO 178
Flexural Stress	190	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	65	kJ/m ²	
23°C	74	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 3.5E-5	cm/cm/°C	ISO 11359-2
Maximum Service Temperature - short cycle operation	210	°C	
Screw Speed	< 250	mm/sec	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms · cm	IEC 60093
Comparative Tracking Index (Solution A)	400	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.800 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 280	°C	
Mold Temperature	60.0 to 100	°C	
NOTE			

1. solution 0,005 g/ml Phenole/1,2
Dichlorbenzol 1:1

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