Ultradur® B 4300 G6 HR

Polybutylene Terephthalate

BASF Corporation

Message:

Injection-moulding grade with 30% glass-fibres; for rigid and dimensionally stable technical parts with increased requirements on hydrolysis resistance. For example automotive connectors and housings for electronic units under the hood.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Dimensional Stability High Rigidity Hydrolysis Resistant		
Uses	Automotive Applications Automotive Under the Hood Connectors Housings		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Black Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	PBT-GF30		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.51	g/cm³	ISO 1183
Apparent Density	0.70 to 0.80	g/cm³	
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	5.50	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.3	%	
Flow	0.45	%	
Water Absorption			ISO 62
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Viscosity Number [1]	108	cm³/g	ISO 307
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	8700	MPa	ISO 527-2
Tensile Stress (Break)	130	MPa	ISO 527-2

Tensile Strain (Break)	3.3	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	12	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	70	kJ/m²	ISO 179/1eU
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
Maximum Service Temperature - short cycle operation	210	°C	
Screw Speed	< 250	mm/sec	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Comparative Tracking Index (Solution A)	400	V	IEC 60112
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			
1.	solution 0,005 g/ml Phenole/1,2 Dichlorbenzol 1:1		

Recommended distributors for this material

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