

Ultradur® B 4300 G6 FC Aqua

Polybutylene Terephthalate

BASF Corporation

Message:

Ultradur B 4300 G6 FC Aqua is a easy flowing injection molding food and drinking water contact PBT with 30% glass fiber reinforcement for rigid, tough, and dimensionally stable parts.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Flow		
	Good Toughness		
	High Rigidity		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.53	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	11.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.1	%	
Flow	0.34	%	
Water Absorption			ISO 62
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Viscosity Number (Reduced Viscosity)	102.0	ml/g	ISO 1628
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9800	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	140	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Flexural Stress (23°C)	200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.5	kJ/m²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
-30°C	74	kJ/m²	
23°C	70	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	215	°C	ISO 75-2/A
Melting Temperature (DSC)	223	°C	ISO 3146
CLTE - Flow	2.5E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	IEC 60093
Dielectric Constant			IEC 60250
100 Hz	4.00		
1 MHz	3.80		
Dissipation Factor			IEC 60250
100 Hz	2.5E-3		
1 MHz	0.017		
Comparative Tracking Index	375	V	IEC 60112
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.040	%	
Processing (Melt) Temp	250 to 270	°C	
Mold Temperature	60.0 to 100	°C	
Injection Pressure	3.45 to 10.3	MPa	
Injection Rate	Fast		
Back Pressure	< 1.00	MPa	

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