Ultradur® B 4406 G6 Q717

Polybutylene Terephthalate

BASF Corporation

Message:

Ultradur B 4406 G6 Q717 is an UL V0 injection molding, PBT grade with 30% glass fiber reinforcement.

General Information			
UL YellowCard	E36632-531671	E41871-233791	E36632-101117278
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.68	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/2.16 kg)	22.0	cm³/10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Viscosity Number (Reduced Viscosity)	98.0	ml/g	ISO 1628
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	11500	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	140	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.1	%	ISO 527-2
Flexural Stress (23°C)	220	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	8.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	50	kJ/m²	ISO 179
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 (DSC)	223	°C	ISO 3146
RTI Elec			UL 746
0.750 mm	140	°C	
1.50 mm	140	°C	
3.00 mm	140	°C	
RTI Imp			UL 746
0.750 mm	130	°C	

1.50 mm	130	°C	
3.00 mm	130	°C	
RTI Str			UL 746
0.750 mm	125	°C	
1.50 mm	130	°C	
3.00 mm	130	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	> 1.0E+13	ohms·cm	IEC 60093
Dielectric Constant			IEC 60250
100 Hz	3.90		
1 MHz	3.90		
Dissipation Factor			IEC 60250
100 Hz	2.0E-3		
1 MHz	0.015		
Comparative Tracking Index	200	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.400 mm	V-0		
0.750 mm	V-0		
1.50 mm	V-0		
3.00 mm	V-0		
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	3.50 to 12.5	MPa	
Injection Rate	Fast		
Back Pressure	< 1.00	MPa	

Recommended distributors for this material

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