

Ultradur® B 4406 G3 Q717

Polybutylene Terephthalate

BASF Corporation

Message:

Ultradur B 4406 G3 Q717 is a 15% glass reinforced injection molding PBT with increased fire safety requirements. It is UL recognized as V0 at 0.4mm and 5VA at 2.0mm.

Applications

Typical applications include microswitches and capacitor pots, plug connectors and switch parts.

General Information			
UL YellowCard	E36632-100072545	E36632-100134593	E41871-546750
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight		
Features	Flame Retardant		
Uses	Connectors		
	Electrical Parts		
	Switches		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	13.0	cm³/10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Viscosity Number (Reduced Viscosity)	116.0	ml/g	ISO 1628
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6500	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	110	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.7	%	ISO 527-2
Flexural Modulus (23°C)	6050	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	6.5	kJ/m²	
23°C	6.5	kJ/m²	
Charpy Unnotched Impact Strength (23°C)	32	kJ/m²	ISO 179
Notched Izod Impact Strength			ISO 180
-30°C	6.1	kJ/m²	

23°C	6.1	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	217	°C	ISO 75-2/B
1.8 MPa, Unannealed	195	°C	ISO 75-2/A
Melting Temperature (DSC)	223	°C	ISO 3146
Flammability	Nominal Value	Test Method	
Flame Rating		UL 94	
0.400 mm	V-0		
2.00 mm	5VA		
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	

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