

Ultradur® B 4406 G3 Q717

Polybutylene Terephthalate

BASF Corporation

Product Description

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.

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

General

Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber Reinforcement, 15% Filler by Weight		
Additive	• Ignition Resistant		
Features	• Flame Retardant		
Uses	• Connectors	• Electrical Parts	• Switches
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	13.0	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Viscosity Number	116	cm ³ /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/m ²	
23°C	6.5	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	32	kJ/m ²	ISO 179
Notched Izod Impact Strength (23°C)	6.10	kJ/m ²	ISO 180

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	Unit	Test Method
Flame Rating - UL			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	

Notes

¹ Typical properties: these are not to be construed as specifications.

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