

Ultradur® B 4406 G6 Q717

Polybutylene Terephthalate

BASF Corporation

Product Description			
Ultradur B 4406 G6 Q717 is an UL V0 injection molding, PBT grade with 30% glass fiber reinforcement.			
General			
Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight		
Features	• High Impact Resistance		
Uses	• Connectors • Switches		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1680	kg/m ³	ISO 1183 ²
Melt volume-flow rate (275°C/5.0 kg)	22.0	cm ³ /10min	ISO 1133 ²
Water Absorption			ISO 62 ²
Saturation	0.40	%	
Equilibrium	0.20	%	
Viscosity Number	98.0	cm ³ /g	ISO 1628
Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	11500	MPa	ISO 527-2 ²
Tensile Stress (Break)	140	MPa	ISO 527-2 ²
Tensile Strain (Break)	2.1	%	ISO 527-2 ²
Flexural Strength (23°C)	220	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	8.00	kJ/m ²	ISO 179/1eA ²
Charpy Unnotched Impact Strength (23°C)	50	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 ²
0.45 MPa	220	°C	
1.8 MPa	205	°C	
Melting Temperature (DSC)	223	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Volume resistivity	> 1.0E+11	ohm·m	IEC 60093 ²
Relative Permittivity			IEC 60250 ²
100 Hz	3.90		
1 MHz	3.90		
Dissipation Factor			IEC 60250 ²
100 Hz	20		
1 MHz	150		
Comparative tracking index	200		IEC 60112 ²
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.50 mm)	V-0		UL 94
UL 746	Nominal Value	Unit	Test Method
RTI Str (1.50 mm)	130	°C	UL 746
RTI Imp (1.50 mm)	130	°C	UL 746
RTI Elec (1.50 mm)	140	°C	UL 746

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

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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 Rate	Fast	
Back Pressure	< 1.00	MPa

Notes

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

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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