BASF Ultradur B 4406 G6 Q717 30% Glass Filled PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Glass Fiber Filled, Flame Retardant

Material Notes:

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

Order this product through the following link:
http://www.lookpolymers.com/polymer_BASF-Ultradur-B-4406-G6-Q717-30-Glass-Filled-PBT.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in³	ISO 1183
Water Absorption	0.40 %	0.40 %	ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C/50% R.H.; ISO 62
Viscosity Test	98 cm³/g	98 cm³/g	Viscosity number
Melt Flow	22 g/10 min @Load 2.16 kg, Temperature 275 °C	22 g/10 min @Load 4.76 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	140 MPa	20300 psi	5mm/min; ISO 527
Elongation at Break	2.1 %	2.1 %	5mm/min; ISO 527
Tensile Modulus	11.5 GPa	1670 ksi	1mm/min; ISO 527
Flexural Strength	220 MPa	31900 psi	ISO Data
Charpy Impact Unnotched	5.00 J/cm²	23.8 ft-lb/in²	ISO 179
Charpy Impact, Notched	0.800 J/cm²	3.81 ft-lb/in²	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	223 °C	433 °F	10 K/min
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ISO 75
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
	V-0	V-0	

Thermal Properties	Metric	English	Comments
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Dielectric Constant	3.9 @Frequency 100 Hz	3.9 @Frequency 100 Hz	IEC 60250
	3.9 @Frequency 1.00e+6 Hz	3.9 @Frequency 1.00e+6 Hz	IEC 60250
Dissipation Factor	0.0020 @Frequency 100 Hz	0.0020 @Frequency 100 Hz	IEC 60250
	0.015 @Frequency 1.00e+6 Hz	0.015 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	200 V	200 V	IEC 60112

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	Active America	
Impact Modified	No	
Primary Processing Technique	Injection Molding	

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