

BASF Ultradur B 4406 G6 Q113 30% Glass Filled PBT

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

Material Notes:

Ultradur B4406 G6 Q113 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-Q113-30-Glass-Filled-PBT.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	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	105 cm ³ /g	105 cm ³ /g	Viscosity number
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM Data; MD
Linear Mold Shrinkage, Flow	0.0028 cm/cm	0.0028 in/in	ISO Data
Linear Mold Shrinkage, Transverse	0.0094 cm/cm	0.0094 in/in	ISO Data
Melt Flow	19 g/10 min @Load 2.16 kg, Temperature 275 °C	19 g/10 min @Load 4.76 lb, Temperature 527 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	135 MPa	19600 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
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	28.0 µm/m-°C	15.6 µin/in-°F	ISO 11359
Melting Point	223 °C	433 °F	10 K/min
	223 °C	433 °F	ASTM Test
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ISO 75

Thermal Properties <small>Deflection Temperature at 1.8 MPa (264 psi)</small>	Metric	English	Comments
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	
	@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
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Dielectric Constant	3.7	3.7	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.9	3.9	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0014	0.0014	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0158	0.0158	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	200 V	200 V	IEC 60112

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	North America and Europe	
Form	Pellets	
Impact Modified	No	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	Flame retarding agent	
	Heat stabilized or stable to heat	
	Light stabilized or stable to light	

Descriptive Properties	Lubricant Value	Comments
U.V. stabilized or stable to weather		

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