

GTM PBT30GF V0/5VA UC

Polybutylene Terephthalate reinforced with 30% glass fiber UL94 V0/5VA

General information:

Polybutylene Terephthalate reinforced with 30% glass fiber and UL94 V0/5VA classification.

UL File Number: E524225

Processing method: Injection method

Properties	Typical Value	Unit	Test Method
Density	1.60	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	8.0	g/10min	ASTM D1238
Reinforcement content	30.0	%	ASTM D2584
Flexural Modulus	6700	MPa	ISO 178
Tensile Stress (Yield)	97	MPa	ISO 527-2
Tensile Strain			
Yield	2.0	%	ISO 527-2
Break	3.5	%	
Notched Izod Impact Resistance	53	J/m	I ASTM D256
Flame resistance			ANSI/UL94
@1.5 mm, Color: NC	V0		
@2.5 mm, Color: NC	V0/5VA		
@3.0 mm, Color: NC	V0/5VA		
Flammability			IEC 60695-11-10
@1.5 mm, Color: NC	V0		
@2.5 mm, Color: NC	V0		
@3.0 mm, Color: NC	V0		
Flammability			IEC 60695-11-20
@2.5 mm, Color: NC	5VA		
@3.0 mm, Color: NC	5VA		

- Notes:**
- Typical properties: these are not to be construed as specifications. Method I (3 point load)
 - Tested at 23 ± 2 °C (73.4 ± 3.6 °F) and 50 ± 10% relative humidity unless otherwise noted

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Properties	Typical Value	Unit	Test Method
Heat deflection temperature 0.45 MPa, Unannealed 1.80 MPa, Unannealed	216 204	°C °C	ASTM D648
Melting temperature (DSC, 10°C/min)	225	°C	ISO 11359-3
CLT - Flow	9.0 E-5	cm/cm/°C	ISO 11359-2
Recommended Processing Conditions	Imperial	Metric	
Drying temperature	250 °F	121 °C	
Drying time	3-4 hrs. max.	3-4 hrs. max.	
Maximum moisture	0.02%	0.02%	
Rear zone (s)	480 to 520 °F	249 to 271 °C	
Middle zone (s)	480 to 530 °F	249 to 277 °C	
Front zone (s)	480 to 530 °F	249 to 277 °C	
Nozzle	480 to 530 °F	249 to 277 °C	
Mold temperature	80 to 180 °F	27 to 82 °C	
Melt temperature	480 to 520 °F	249 to 271 °C	
Back pressure	50 to 100 psi	3 to 7 bar	

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