

Yuyao PBT 3020G20

Polybutylene Terephthalate

Yuyao Tenglong Plastics Co., Ltd.

Message:

Yuyao PBT 3020G20 is a Polybutylene Terephthalate (PBT) product filled with 20% glass fiber. It can be processed by injection molding and is available in Asia Pacific. Applications of Yuyao PBT 3020G20 include electrical/electronic applications, automotive and engineering/industrial parts.

Characteristics include:

- Flame Rated
- Flame Retardant
- Creep Resistant
- Fatigue Resistant
- Good Dimensional Stability

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Flame Retardant		
Features	Electrically Insulating		
	Fatigue Resistant		
	Flame Retardant		
	Good Creep Resistance		
	Good Dimensional Stability		
	Good Impact Resistance		
	Good Processability		
	High Heat Resistance		
Uses	Automotive Under the Hood		
	Connectors		
	Electrical Parts		
	Printed Circuit Boards		
	Valves/Valve Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.50 to 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	100	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	6200	MPa	ASTM D790
Flexural Strength	155	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area)	8.00	kJ/m ²	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	205	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-0		
3.20 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	115 to 120	°C	
Drying Time	6.0 to 8.0	hr	
Processing (Melt) Temp	230 to 265	°C	
Mold Temperature	60.0 to 100	°C	
Injection Pressure	70.0 to 100	MPa	

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