

Yuyao PBT 518

Polybutylene Terephthalate

Yuyao Tenglong Plastics Co., Ltd.

Message:

Yuyao PBT 518 is a Polybutylene Terephthalate (PBT) product filled with glass fiber. It can be processed by injection molding and is available in Asia Pacific. Typical application: Electrical/Electronic Applications.

Characteristics include:

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

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	Flame Retardant		
Features	Fatigue Resistant		
	Flame Retardant		
	Good Creep Resistance		
	Good Dimensional Stability		
	Good Impact Resistance		
	Good Processability		
	High Heat Resistance		
Uses	Electrical Parts		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.80 to 1.2	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	85.0	MPa	ASTM D638
Tensile Elongation (Break)	3.8	%	ASTM D638
Flexural Modulus	8510	MPa	ASTM D790
Flexural Strength	132	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area)	6.00	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	170	°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 250	°C
Mold Temperature	60.0 to 100	°C
Injection Pressure	70.0 to 100	MPa

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