

# Zhongfa PET G20S

Polyethylene Terephthalate

Yuyao Zhongfa Engineering Plastics Co. Ltd.

Message:

Zhongfa PET G20S is a polyethylene terephthalate (PET) material, which contains a 20% glass fiber reinforced material. This product is available in the Asia-Pacific region and is processed by injection molding.

The main characteristics of Zhongfa PET G20S are:

flame retardant/rated flame

high strength

insulation

Heat resistance

Typical application areas include:

Electrical/electronic applications

electrical appliances

Automotive Industry

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	High tensile strength		
	Insulation		
	Good liquidity		
	Good heat aging resistance		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
	Application in Automobile Field		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.30 - 0.90	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	160	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	9700	MPa	ASTM D790
Flexural Strength	230	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	242	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	UL 94		

1.60 mm	HB	UL 94
3.20 mm	HB	UL 94

#### Additional Information

Notched Izod Impact, ASTM D256: 9 kJ/m<sup>2</sup>

Injection	Nominal Value	Unit
Drying Temperature	125 - 130	°C
Drying Time	5.0 - 8.0	hr
Processing (Melt) Temp	250 - 280	°C
Mold Temperature	60.0 - 100	°C
Injection Pressure	80.0 - 120	MPa

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#### Recommended distributors for this material

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