

# Zhongfa PS FR-88E

High Impact Polystyrene

Yuyao Zhongfa Engineering Plastics Co. Ltd.

Message:

Zhongfa PS FR-88E is a high impact polystyrene material. This product is available in the Asia-Pacific region and is processed by injection molding. The main features of Zhongfa PS FR-88E are:

- flame retardant/rated flame
- Flame Retardant
- high strength
- Heat resistance

Typical application areas include:

- Electrical/electronic applications
- electrical appliances

General Information			
Additive	Flame retardancy		
Features	High tensile strength		
	Good liquidity		
	Thermal stability, good		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 - 0.80	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	89		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	25.3	MPa	ASTM D638
Tensile Elongation (Break)	23	%	ASTM D638
Flexural Modulus	1800	MPa	ASTM D790
Flexural Strength	42.0	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	83.0	°C	ASTM D648
Vicat Softening Temperature	96.0	°C	ASTM D1525
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	V-0		UL 94

#### Additional Information

Notched Izod Impact, ASTM D256: 9.5 kJ/m<sup>2</sup>

Injection	Nominal Value	Unit
Drying Temperature	85.0 - 90.0	°C
Drying Time	4.0 - 5.0	hr
Processing (Melt) Temp	190 - 225	°C
Mold Temperature	50.0 - 80.0	°C
Injection Pressure	60.0 - 80.0	MPa

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#### Recommended distributors for this material

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