

**GENERAL PURPOSE
POLYSTYRENE
(GPPS)**

DIAMOND GP-570

Characteristics:

- Blue Tined,
- Excellent Clarity,
- Excellent Flow, Low Volatility

Processing:

- Injection Molding

Applications:

Spoon, Fork, Knife, ball point/ pens barrels, drinking cups, multiple cavities molds and thin wall applications

Material Status :

TYPICAL PROPERTIES	TEST METHOD	UNIT	VALUES
Mechanical Properties			
Tensile Strength at Yield / at break	ASTM D-638	kgf/cm ²	330
Tensile Elongation	ASTM D-638	%	1.0
Flexural Strength	ASTM D-790	kgf/cm	500
Thermal Properties			
Vicat Softening Temp	ASTM D-1525	°C	90
Heat Distortion Temp	ASTM D-648	°C	80
General Properties			
Melt Flow Rate MFR 200/5	ASTM D-1238	gm/10 min	22.0
Processing			
Specific Gravity	ASTM D-792		1.05

Product Description	Polystyrene is a highly transparent material. It gives excellent mechanical and heat resistance properties while providing with easy process ability and molding applications.
Processing	Although Polystyrene GP-570 can be processed by any method applicable to polystyrene based plastic, it is best suitable for injection molding. The melt temperatures should not exceed 260 °C.
Product Safety	During processing of Polystyrene GP-570 small quantity of Styrene Monomer may be released into the atmosphere. At styrene vapor concentrations below 20 ppm, no negative health effects are expected. In our experience, the concentration of styrene does not exceed 1 ppm in good ventilate workplace.
Form supplied & Storage	Polystyrene GP-570 is supplied as cylindrical shaped granules. It has to be kept in its original containers in a dry, cool place, Avoid direct exposure to sunlight. PS GP-570 can also be stored in silos.
Food Legislation	If it used unmodified and under appropriate processing conditions, Polystyrene GP-570 conforms with FDA title 21 CFR section 177.1640 regarding the use of in food contact articles. Diamond Polystyrene is also approved by PCSIR (Pakistan Council of Scientific & Industrial Research) Diamond polystyrene resins can be recycled. Adequate ventilation should be used during processing.
Environmental	Diamond Polystyrene must not be dispose of to landfill or incineration as per government laws and regulations.

Note:

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