

**GENERAL PURPOSE
POLYSTYRENE
(GPPS)**

DIAMOND GP-560

Characteristics:

- Blue tinted,
- Excellent Clarity,
- Good Flow, Low Volatility,
(Below 1000 ppm)

Processing:

- Injection Molding

Applications:

House ware, Containers, Toys,
Stationery items , Water Filter
Bottle, Drinking Cups and thin wall
Applications etc.

Material Status

TYPICAL PROPERTIES	TEST METHOD	UNIT	VALUES
Mechanical Properties			
Tensile Strength at Yield / at break	ASTM D-638	kgf/cm ²	350
Tensile Elongation	ASTM D-638	%	0.9
Flexural Strength	ASTM D-790	kgf/cm ²	600
Thermal Properties			
Vicat Softening Temp	ASTM D-1525	°C	90
Heat Deflection Temp	ASTM D-648	°C	80
General Properties			
Melt Flow Rate MFR 200/5	ASTM D-1238	gm/10 min	12
Processing			
Specific Gravity	ASTM D-792	23/23°C	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-560 can be processed by any method applicable to polystyrene based plastic, it is best suitable for injection molding and extrusion molding. The melt temperatures should not exceed 260 °C.
Product Safety	During processing of Polystyrene GP-560, 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-560 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-560 can also be stored in silos.
Food Legislation	If used unmodified and under appropriated processing conditions, Polystyrene GP-560 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).
Environmental	Diamond polystyrene resins can be recycled. Adequate ventilation should be used during processing. Diamond Polystyrene must not be dispose of to landfill or incineration as per government laws and regulations.

Note:

The information & recommendations in this publications are, bets of our knowledge, reliable, suggestions concerning used or a applications are only the opinion of Pak Petrochemical Industries (Pvt.) Ltd. and users should perform their own test to determine the suitability of these products for their own particular purposes. However, because of numerous factors affecting results, Pak Petrochemical MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING THOSE OF MANUFACTURING AND FITNESS FOR PURPOSE, other than that the material conforms to the applicable current standard specification statement herein, therefore should not be construed as representations or warranties.



"Committed to Supply Quality Products"