

**GENERAL PURPOSE
POLYSTYRENE
(GPPS)**

DIAMOND GP-525X

Characteristics:

- Blue tinted,
- No internal lubricant,
- Excellent Clarity,
- Good Flow, Low Volatility, (Below 1000 ppm)

Processing:

- Extrusion
- Injection Molding

Applications:

XPS Insulation Boards and PSP Foam Products etc.

Material Status

TYPICAL PROPERTIES	TEST METHOD	UNIT	VALUES
Mechanical Properties			
Tensile Strength at Yield / at break	ASTM D-638	kgf/cm ²	430
Tensile Elongation	ASTM D-638	%	1.2
Flexural Strength	ASTM D-790	kgf/cm ²	900
Thermal Properties			
Vicat Softening Temp	ASTM D-1525	°C	100
Heat Deflection Temp	ASTM D-648	°C	85
General Properties			
Melt Flow Rate MFR 200/5	ASTM D-1238	gm/10 min	8
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-525X 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-525X, 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-525X 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-525X can also be stored in silos.
Food Legislation	If used unmodified and under appropriated processing conditions, Polystyrene GP-525X 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:

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