Diamond Polystyrene

Pak Petrochemical
Industries (Pvt.) Ltd

GENERAL PURPOSE POLYSTYRENE (GPPS)

DIAMOND GP-565

Characteristics:

- Blue tinted,
- Excellent Clarity,
- High 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/cm²	340
Tensile Elongation	ASTM D-638	%	0.75
Flexural Strength	ASTM D-790	kgf/cm²	560
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	16.5
Processing			
Specific Gravity	ASTM D-792	23/23°C	1.05

Pak Petrochemical Industries (Pvt.) Ltd.
Polymer House, Survey N0.136, Main National Highway, Landhi Karachi (75030), Pakistan.
Tel: 021-35019701-4, Fax: 021-5018552-3, Email: info@polystyrene.com.pk, URIL: www.polystyrene.com.pk

Diamond Polystyrene

Pak Petrochemical
Industries (Pvt.) Ltd

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-565 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-565, 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-565 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-565 can also be stored in silos.
Food Legislation	If used unmodified and under appropriated processing conditions, Polystyrene GP-565 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 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 WARRANT 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"

Pak Petrochemical Industries (Pvt.) Ltd.
Polymer House, Survey N0.136, Main National Highway, Landhi Karachi (75030), Pakistan.
Tel: 021-35019701-4, Fax: 021-5018552-3, Email: info@polystyrene.com.pk, URIL: www.polystyrene.com.pk