Diamond Polystyrene

Pak Petrochemical Industries (Pvt.) Ltd

HIGH IMPACT POLYSTYRENE (HIPS)

DIAMOND HI-826 (H.G)

Characteristics:

- Medium flow, Superior heat characteristics,
- Better mold capability, Good strength,
- Good practical toughness,
- Excellent mold release behavior.
- High Gloss

Processing:

- Injection Molding Grade

Applications:

- Air conditioner grills.
- TV cabinets, Cosmetic packing parts
- Stationery products and thick wall molding

Material Status

TYPICAL PROPERTIES	TEST METHOD	UNIT	VALUES
Mechanical Properties			
Tensile Strength at Yield / at break	ASTM D-638	kgf/cm²	280
Tensile Elongation	ASTM D-638	%	40
Flexural Strength	ASTM D-790	kgf/cm²	500
Izod Impact Resistance	ASTM D-256	kgf-cm/cm	12
Thermal Properties			
Vicat Softening Temp	ASTM D-1525	^{0}C	96
Heat Deflection Temp	ASTM D-648	^{0}C	92
General Properties			
Melt Flow Rate MFR 200/5	ASTM D-1238	gm/10 min	3.5
Processing			
Specific Gravity	ASTM D-792		1.05
Miscellaneous Properties			
Gloss	ASTM D-523	%	80

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Product Description

Diamond HI-826 (H.G) is a High Impact Polystyrene grade with an Opaque & Glossy surface. It gives excellent mechanical and heats resistance properties while providing easy processability and molding applications.

Processing

Although Polystyrene HI-826 (H.G) 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 the processing of Polystyrene HI-826 (H.G), a 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 HI-826 (H.G) 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. Diamond HI-800 (H.G) can also be stored in silos.

Food Legislation

If used unmodified and under appropriate processing conditions, Polystyrene HI-826 (H.G) 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 disposed of in landfill or incineration as per government laws and regulations.

Note:

The information & recommendations in this publication are, best 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 tests to determine the suitability of these products for their own particular purposes. However, because of numerous factors affecting results, Pak Petrochemical MAKES NO WARRANTOFANYKIND, EXPRESS OR IMPLIED, INCLUDINGTHOSEOFMANUFACTURINGANDFITNESSFORPURPOSE, other tthenthat 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"

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