

A Product by Pak Polystyrene

DIAMOND HI-800

Characteristics:

- High flow, Superior heat Characteristics,
- Better mold capability, Good strength
- Good practical toughness
- Excellent mold release behavior

Processing
Injection Molding
Grade

Application:
Air conditioner grills.
TV cabinets, Cosmetic packing
parts Stationary products
and thin wall molding.

Material Status

TYPICAL PROPERTIES	TEST METHOD	UNIT	VALUES
Mechanical Properties			
Tensile Strength at Yield / at break	ASTM D-638	kgf/cm ²	150
Tensile Elongation	ASTM D-638	%	50
Flexural Strength	ASTM D-790	kgf/cm ²	300
Izod Impact Strength	ASTM D-256	Kgf-cm/cm	11
Gardner Falling Dart	ASTM D-256	In-lb	113
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	11.0
Processing			
Specific Gravity	ASTM D-792	23/23°C	1.04



Product Description

Diamond HI-800 is a High Impact Polystyrene grade with Opaque & matt finish surface. It gives excellent mechanical and heat resistance properties while providing with easy process ability and molding applications.

Processing

Although Polystyrene HI-800 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 0C.

Product Safety

During processing of Polystyrene HI-800, 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-800 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 can also be stored in silos.

Food Legislation

If used unmodified and under appropriated processing conditions, Polystyrene HI-800 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, best of our knowledge, reliable, suggestions concerning used or applications are only the opinion of Pak Polystyrene. 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 Polystyrene 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.