

Pak Petrochemical

Industries (Pvt.) Ltd

HIGH IMPACT POLYSTYRENE (HIPS)

DIAMOND HI-800

Characteristics:

- o High flow, Superior heat characteristics,
- Better mold capability, Good strength,
- o Good practical toughness,
- Excellent mold release behavior & brilliant process ability properties during molding.

Processing:

O Injection Molding

Applications:

Containers for cosmetic products, Stationery Products, Disposable cutlery, Plates, Glasses, Dairy Packaging Products and disposable lids etc.

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	%	40
Flexural Strength	ASTM D-790	kgf/cm ²	300
Izod Impact Strength	ASTM D-256	kg-cm/cm	11
Gardner Falling Dart	ASTM D-5420	In-Ib	113
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	11
Processing			
Specific Gravity	ASTM D - 792	23/23°C	1.04















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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 and extrusion molding. The melt temperatures

should not exceed 260 °C.

During processing of Polystyrene HI-800, small quantity of Styrene Monomer may be released **Product Safety**

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. PS HI-800 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).

Diamond polystyrene resins can be recycled. Adequate ventilation should be used during processing.

Environmental

Diamond Polystyrene must not be dispose of to landfill or incineration as per government laws and

regulations.

Note:

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