

Pak Petrochemical

Industries (Pvt.) Ltd

HIGH IMPACT POLYSTYRENE (HIPS)

DIAMOND HI-850

Characteristics:

- High Impact
- Good Gloss
- Standard Flow
- Low Volatility

Processing:

O Injection Molding

Applications:

House ware, Drinking Cups, Washing Machine Plastic parts Toys, Stationery products , sanitary products ,plastic Hangers , Cotton Buds, Automotive Spare Parts and disposable razors etc.

Material Status

TYPICAL PROPERTIES	TEST METHOD	UNIT	VALUES
Mechanical Properties			
Tensile Strength at Yield / at break Tensile Elongation Flexural Strength Izod Impact Strength Gardner Falling Dart Thermal Properties Vicat Softening Temp Heat Deflection Temp	ASTM D-638 ASTM D-638 ASTM D-790 ASTM D-256 ASTM D-5420 ASTM D-1525	kgf/cm² % kgf/cm² kg-cm/cm In-Ib	200 40 375 10 95
General Properties	ASTM D-648	oC	85
Melt Flow Rate MFR 200/5	ASTM D-1238	gm/10 min	6
Processing			
Specific Gravity	ASTM D - 792	23/23°C	1.04















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Product Description Diamond HI-850 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-850 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-850, 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 &

Environmental

Storage

Polystyrene HI-850 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-850 can also be stored

in silos.

Food Legislation If used unmodified and under appropriated processing conditions, Polystyrene HI-850

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.

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

regulations.

Note:

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