PAK POLYSTYRENE

A Product by Pak Polystyrene

DIAMOND HI-850

Characteristics:

- High impact,
- Standard flow
- Low volatility
- Low Volatility.
- **Processing:** Injection MoldingGrade

Applications:

House ware, TV, Audio equipment parts, drinking cups, Washingmachines plastic parts, Airconditioners grills, Plasticrefrigerator components, Toys, Stationery products, Sanitary products,

Material Status

TYPICAL PROPERTIES	TEST METHOD	UNIT	VALUES
Mechanical Properties			
Tensile Strength at Yield / at break	ASTM D-638	kgf/cm^2	200
Tensile Elongation	ASTM D-638	%	50
Flexural Strength	ASTM D-790	kgf/cm^2	375
Izod Impact Strength	ASTM D-256	kgf-cm/cm	10
Gardner Falling Dart	ASTM D-256	In-lb	100
Thermal Properties			
Vicat Softening Temp	ASTM D-1525	^0C	95
Heat Distortion Temp	ASTM D-648	^0C	85
General Properties			
Melt Flow Rate MFR 200/5	ASTM D-1238	gm/10 min	6.0
Processing			
Specific Gravity	ASTM D-792	23/23 ^0C	1.05

PAK POLYSTYRENE

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. The melt temperatures should not exceed 260 0C.
Product Safety	○ During processing of Polystyrene HI-850, 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-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. Diamond 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).
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.