

**DIAMOND HI-851**

**Characteristics:**

- High Impact
- Good Gloss
- Low Volatility

**Processing:**

- Extrusion

**Applications:**

Disposable cutlery, plates, Glasses, Cups Household Products, Seed Tray, Laminated sheets e.g. EPS Pallet etc.

Material Status

TYPICAL PROPERTIES	TEST METHOD	UNIT	VALUES
<b>Mechanical Properties</b>			
Tensile Strength at Yield / at break	ASTM D-638	kgf/cm <sup>2</sup>	210
Tensile Elongation	ASTM D-638	%	40
Flexural Strength	ASTM D-790	kgf/cm <sup>2</sup>	400
Izod Impact Strength	ASTM D-256	kg-cm/cm	10
Gardner Falling Dart	ASTM D-5420	In-lb	95
<b>Thermal Properties</b>			
Vicat Softening Temp	ASTM D-1525	°C	90
Heat Deflection Temp	ASTM D-648	°C	85
<b>General Properties</b>			
Melt Flow Rate MFR 200/5	ASTM D-1238	gm/10 min	3
<b>Processing</b>			
Specific Gravity	ASTM D - 792	23/23°C	1.04

**Product Description**

Diamond HI-851 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-851 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-851, small quantity of Styrene Monomer may be released