

# HI830

## High Impact Polystyrene (HIPS)

### Description:

HI830 is a high impact grade of polystyrene resin for extrusion process with good impact resistance. It is recommended for food packaging, vacuum sheet, household products, and sanitary ware. It also meets the requirement of food contact regulation.

Physical Properties:	Method	Unit	Value
Melt Flow Index (5 kg/200°C)	ASTM D1238	g/10min.	3.0
Izod Notched Impact (1/4", 23°C)	ASTM D256	Kg-cm/cm	12
Tensile Strength at Yield (23°C)	ASTM D638	kg/cm <sup>2</sup>	218
Flexural Strength at Yield (23°C)	ASTM D790	kg/cm <sup>2</sup>	422
Flexural Modulus (23°C)	ASTM D790	×10 <sup>4</sup> kg/cm <sup>2</sup>	2.18
Rockwell Hardness (1/4", 23°C)	ASTM D785	L-Scale	82
Heat Distortion Temperature (1/4", 18.6 kg/cm <sup>2</sup> )	ASTM D648	°C	90
Vicat Softening Temperature (1/8", kg)	ASTM D1525	°C	96
Flammability	UL-94	-	HB (3.0)

### Processing Technique

Processing Temperature : 190-240 °C

\*\*However, the actual processing conditions depend on mold design, power of machine, screw configurations and other environments.\*\*

**Remark:** The values presented on the above are typical laboratory average, not to be construed as specifications and may vary within moderate ranges. The applicability or the accuracy of this information or the suitability of our products cannot be guaranteed because the conditions of use on the part or our uses are beyond our control.