

# GP110

## General Purpose Polystyrene (GPPS)

### Description:

GP110 is a general purpose grade of polystyrene resin for extrusion process and injection process with high strength and good clarity. It is suitable for food packaging (XPS), electrical appliances (refrigerator food tray), household products, sanitary ware and etc. 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.	1.7
Tensile Strength at Yield (23°C)	ASTM D638	kg/cm <sup>2</sup>	534
Flexural Strength at Yield (23°C)	ASTM D790	kg/cm <sup>2</sup>	1019
Flexural Modulus (23°C)	ASTM D790	×10 <sup>4</sup> kg/cm <sup>2</sup>	3.30
Rockwell Hardness (1/4", 23°C)	ASTM D785	M-Scale	80
Heat Distortion Temperature (1/4", 18.6 kg/cm <sup>2</sup> )	ASTM D648	°C	98
Vicat Softening Temperature (1/8", 1 kg)	ASTM D1525	°C	107
Flammability	UL-94	-	HB (3.0)

### Processing Technique

Processing Temperature : 170-230 °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.