

## Technical Data Sheet

# GPPS(General Purpose Poly Styrene) GP 125EB

**Features** Heat strength  
**Applications** PSP (tray, cup)

Physical	Test Method	Value
Density	ASTM D792	1.04 g/cm <sup>3</sup>
Melt Flow Index (200°C, 5kg)	ASTM D1238	5.3 g/10min
Mold Shrinkage	ASTM D955	0.3 ~ 0.6 %
Water absorption	ASTM D570	0.03 %

Mechanical	Test Method	Value
Tensile Strength	ASTM D638	450 kg/cm <sup>2</sup> (6,390) (psi)
Elongation	ASTM D638	3.5 %
Flexural Strength	ASTM D790	720 kg/cm <sup>2</sup> (10,224) (psi)
Flexural Modulus	ASTM D790	30,000 kg/cm <sup>2</sup> (426,000) (psi)
Izod Impact Strength(3.2mm)	ASTM D256	1.5 kgcm/cm (0.28) (ft-lb/in)
Rockwell Hardness(M scale)	ASTM D785	74

Thermal	Test Method	Value
Heat Deflection Temperature(18.6kgf/cm <sup>2</sup> )	ASTM D648	85 °C (185) (°F)
Vicat Softening Temperature(1kg, 50°C/h)	ASTM D1525	102 °C (215) (°F)

Flammability	Test Method	Value
Flame Rating - UL (1.6mm)	UL 94	HB

### Notes

These are just typical properties, not specifications. Users should confirm results by their own test.

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### Processing guide

<b>Injection Guide</b>	<b>Unit</b>	<b>Value</b>
Nozzle	°C	190~220
Front	°C	190~210
Middle	°C	180~200
Rear	°C	170~190
Hopper Throat	°C	45
Mold	°C	40~70

  

<b>Drying</b>	<b>Unit</b>	<b>Value</b>
Temperature	°C	60~70
Time	hr	1~3

### Notes

These are only mentioned as general guidelines.