

**Technical Data Sheet**

**GPPS(General Purpose Poly Styrene)  
GP 150E**

**Features** Super High strength  
**Applications** XPS

Physical	Test Method	Value
Density	ASTM D792	1.04 g/cm <sup>3</sup>
Melt Flow Index (200°C, 5kg)	ASTM D1238	2.5 g/10min
Mold Shrinkage	ASTM D955	0.3 ~ 0.6 %
Water absorption	ASTM D570	0.03 %

Mechanical	Test Method	Value
Tensile Strength	ASTM D638	550 kg/cm <sup>2</sup> (7,810) (psi)
Elongation	ASTM D638	3.5 %
Flexural Strength	ASTM D790	900 kg/cm <sup>2</sup> (12,780) (psi)
Flexural Modulus	ASTM D790	35,000 kg/cm <sup>2</sup> (497,000) (psi)
Izod Impact Strength(3.2mm)	ASTM D256	1.5 kgcm/cm (0.28) (ft-lb/in)
Rockwell Hardness(M scale)	ASTM D785	76

Thermal	Test Method	Value
Heat Deflection Temperature(18.6kgf/cm <sup>2</sup> )	ASTM D648	92 °C (198) (°F)
Vicat Softening Temperature(1kg, 50°C/h)	ASTM D1525	105 °C (221) (°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

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

  

Drying	Unit	Value
Temperature	°C	60~70
Time	hr	1~3

#### Notes

These are only mentioned as general guidelines.

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