

**Technical Data Sheet**

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

**Features** High transparency, High strength  
**Applications** Vegetable container of refrigerator, Humidifier, Lighting equipment

<b>Physical</b>	<b>Test Method</b>	<b>Value</b>
Density	ISO 1183	1.04 g/cm <sup>3</sup>
Melt Flow Index (200°C, 5kg)	ISO 1133	3.0 g/10min
Mold Shrinkage	ISO 294-4	0.3 ~ 0.6 %
Water absorption	ISO 62	0.03 %

<b>Mechanical</b>	<b>Test Method</b>	<b>Value</b>
Tensile Strength	ISO 527	52 Mpa
Elongation	ISO 527	3.5 %
Flexural Strength	ISO 178	90 MPa
Flexural Modulus	ISO 178	3,300 Mpa
Izod Impact Strength(3.2mm)	ISO 180/1A	1.9 KJ/m <sup>2</sup>
Rockwell Hardness(M scale)	ISO 2039-2	75

<b>Thermal</b>	<b>Test Method</b>	<b>Value</b>
Heat Deflection Temperature(18.6kgf/cm <sup>2</sup> )	ISO 75-2	92 °C
Vicat Softening Temperature(1kg, 50°C/h)	ISO 306	105 °C

<b>Flammability</b>	<b>Test Method</b>	<b>Value</b>
Flame Rating - UL (1.6mm)	UL 94	HB

**Notes**

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

## Technical Data Sheet

# GPPS(General Purpose Poly Styrene) GP 150K

### 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.