

Technical Data Sheet

**GPPS(General Purpose Poly Styrene)
GP 125**

Features General purpose
Applications Kitchen utensils, Cosmetic case, CD case, Dust covers for electronic equipment

Physical	Test Method	Value
Density	ASTM D792	1.04 g/cm ³
Melt Flow Index (200°C, 5kg)	ASTM D1238	9.0 g/10min
Mold Shrinkage	ASTM D955	0.3 ~ 0.6 %
Water absorption	ASTM D570	0.03 %

Mechanical	Test Method	Value
Tensile Strength	ASTM D638	430 kg/cm ² (6,106) (psi)
Elongation	ASTM D638	3.5 %
Flexural Strength	ASTM D790	580 kg/cm ² (8,236) (psi)
Flexural Modulus	ASTM D790	29,200 kg/cm ² (414,640) (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 ²)	ASTM D648	82 °C (180) (°F)
Vicat Softening Temperature(1kg, 50°C/h)	ASTM D1525	99 °C (210) (°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.