KUMHO PETROCHEMICAL

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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℃, 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 ℃ (180) (℉)
Vicat Softening Temperature(1kg, 50℃/h)	ASTM D1525	99 ℃ (210) (℉)

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	℃	190~220
Front	℃	190~210
Middle	℃	180~200
Rear	℃	170~190
Hopper Throat	℃	45
Mold	℃	40~70

Drying	Unit	Value
Temperature	℃	60~70
Time	hr	1~3

Notes

These are only mentioned as general guidelines.