KUMHO PETROCHEMICAL

beyond the best

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^3
Melt Flow Index (200℃, 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	530 kg/cm^2 (7,526) (psi)
Elongation	ASTM D638	3.5 %
Flexural Strength	ASTM D790	900 kg/cm^2 (12,780) (psi)
Flexural Modulus	ASTM D790	35,000 kg/cm^2 (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^2)	ASTM D648	92 ℃ (198) (℉)
Vicat Softening Temperature(1kg, 50℃/h)	ASTM D1525	105 ℃ (221) (℉)

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.

Rev. : 2023-04-17

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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.

Rev. : 2023-04-17