

Technical Data Sheet

GPPS(General Purpose Poly Styrene) GP 150I

Features High transparency, High strength
Applications Refrigerator accessories, etc.

Physical	Test Method	Value
Density	ISO 1183	1.04 g/cm ³
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 %

Mechanical	Test Method	Value
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 ²
Rockwell Hardness(M scale)	ISO 2039-2	75

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

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.

Technical Data Sheet

GPPS(General Purpose Poly Styrene) GP 150I

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.