

Technical Data Sheet

HIPS(High Impact Poly Styrene) HI 450PG

Features High gloss, High impact strength
Applications Toys, PC swivel, Washing machine cover, Leisure table, Office equipment

Physical	Test Method	Value
Density	ISO 1183	1.03 g/cm ³
Melt Flow Index (200°C, 5kg)	ISO 1133	4.5 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	35 Mpa
Elongation	ISO 527	60 %
Flexural Strength	ISO 178	49 MPa
Flexural Modulus	ISO 178	2,000 Mpa
Izod Impact Strength(3.2mm)	ISO 180/1A	10 KJ/m ²
Rockwell Hardness(L scale)	ISO 2039-2	74

Thermal	Test Method	Value
Heat Deflection Temperature(18.6kgf/cm ²)	ISO 75-2	83 °C
Vicat Softening Temperature(1kg, 50°C/h)	ISO 306	98 °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

HIPS(High Impact Poly Styrene) HI 450PG

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	40~60

Drying	Unit	Value
Temperature	°C	60~70
Time	hr	1~3

Notes

These are only mentioned as general guidelines.