

# Composite PP

## KH52T

### Antibacterial PP composite

#### Application

Automotive E&E parts, Water purifier internal parts, Filter Case

#### Characteristics

Excellent inhibitory effects against E. coli and Staphylococcus aureus, Excellent antibacterial properties, Excellent thermal resistance, High heat resistance

#### Physical properties

Item	Test Method	Unit	Typical Value
Melt index (230°C)	ASTM D1238	g/10min	12
Specific gravity	ASTM D792	g/cm <sup>3</sup>	1.1.5
Tensile strength (at yield)	ASTM D638	kg/cm <sup>2</sup>	390
Elongation (at break)	ASTM D638	%	8
Flexural modulus	ASTM D790	kg/cm <sup>2</sup>	28,000
Izod Impact Strength (23°C)	ASTM D256	kg cm/cm	4
Rockwell hardness	ASTM D785	R scale	103
Heat distortion temperature	ASTM D648	°C	145
Shrinkage Ratio	HTC METHOD	%	0.1~1.5
Korean yarn fabric			○
Japan Food Analysis Center, etc.			○

Note: The above physical property value is a representative value for reference and is not a product quality standard.

#### Processing conditions

Item	Unit	Typical value
Cylinder temperature (rear)	°C	170 ~ 180
Cylinder temperature (middle)	°C	180 ~ 200
Cylinder temperature (front)	°C	180 ~ 200
Nozzle temperature	°C	190 ~ 210
Mold temperature	°C	40 ~ 70
Injection pressure	kg/cm <sup>2</sup>	400 ~ 800
Back pressure	kg/cm <sup>2</sup>	5 ~ 20
Injection speed	%	50 ~ 80

※ Actual injection conditions should be adjusted according to the type of injection machine, mold, and part size.

## Certification

For further inquiries, please contact Hanwha TotalEnergies Petrochemical Composite Development Team.

## Contact information

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