



# **Composite PP**

KH52T

#### **Antibacterial PP composite**

Application
Characteristics

Physical properties

Electrical and electronic parts, Water purifier internal parts, Filter Case

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

Item	Test Method	Unit	Typical Value
Melt index (230°C)	ASTM D1238	g/10min	12
Specific gravity	ASTM D792	g/cm³	1.05
Tensile strength (at yield)	ASTM D638	kg/cm <sup>*</sup>	390
Elongation (at break)	ASTM D638	%	8
Flexural modulus	ASTM D790	kg/cm²	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			0
Japan Food Analysis Center,			
etc.			0

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>*</sup>	400 ~ 800
Back pressure	kg/cm²	5 ~ 20
Injection speed	%	50 ~ 80

<sup>\*</sup> Actual injection conditions should be adjusted according to the type of injection machine, mold, and part size.





### Certification

## **Contact** information

For further inquiries, please contact Composite Development Team.

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