

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 ³	1.1.5
Tensile strength (at yield)	ASTM D638	kg/cm ²	390
Elongation (at break)	ASTM D638	%	8
Flexural modulus	ASTM D790	kg/cm ²	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 ²	400 ~ 800
Back pressure	kg/cm ²	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

Hanwha TotalEnergies Petrochemical co. Ltd.
www.htpchem.com

Sales Office
04525 No.92, Sejong-daero, Jung-gu, 16, 18-20F, Hanwha
Finance Plaza, Seoul, Republic of Korea
16th floor of Hanwha Financial Plaza

Composite Development Team
31900 103, Dokgot 2-ro, Daesan-eup, Seosan-si,
Chungcheongnam-do, Republic of Korea
T. 041-660-6106 F. 041-660-6089

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