

Composite PP

NH54G

High impact G/F reinforced PP composite

Application

Automotive E&E parts, Air conditioner interior parts, Fan Housing

Characteristics

Excellent mechanical strength and heat-resistance, Excellent dimensional stability, Low warpage, Excellent processability, Electrical properties

Physical properties

Item	Test Method	Unit	Typical Value
Melt index (230°C)	ASTM D1238	g/10min	4
Specific gravity	ASTM D792	g/cm ³	1.23
Tensile strength (at yield)	ASTM D638	kg/cm ²	780
Elongation (at break)	ASTM D638	%	5
Flexural strength	ASTM D790	kg/cm ²	1,100
Flexural modulus	ASTM D790	kg/cm ²	81,000
Izod Impact Strength (23°C)	ASTM D256	kg cm/cm	9
Rockwell hardness	ASTM D785	R scale	114
Heat distortion temperature	ASTM D648	°C	162
Shrinkage Ratio	HTC METHOD	%	0.3 ~ 1.0

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
Processing temperature	°C	200 ~ 240
Mold temperature	°C	40 ~ 70
Screw	rpm	30 ~ 80
Injection pressure	kg/cm ²	300 ~ 500
Back pressure	kg/cm ²	0
Injection speed	%	Max

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

**Certification**

Hanwha TotalEnergies Petrochemical NH54G is not suitable for food packaging or medical supplies.

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

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