

# Composite PP

## GH42

G/F reinforced PP composite

### Application

Automotive E&E parts, Household goods, Hanger

### Characteristics

Excellent physical properties, High heat resistance, Excellent processability, Low shrinkage

### Physical properties

Item	Test Method	Unit	Typical Value
Melt index (230°C)	ASTM D1238	g/10min	10
Specific gravity	ASTM D792	g/cm <sup>3</sup>	1.04
Tensile strength (at yield)	ASTM D638	kg/cm <sup>2</sup>	900
Elongation (at break)	ASTM D638	%	4
Flexural strength	ASTM D790	kg/cm <sup>2</sup>	1,100
Flexural modulus	ASTM D790	kg/cm <sup>2</sup>	42,000
Izod Impact Strength (23°C)	ASTM D256	kg cm/cm	10
Rockwell hardness	ASTM D785	R scale	114
Heat distortion temperature	ASTM D648	°C	162
Shrinkage Ratio	HTC METHOD	%	0.3~1.0
Flame-retardancy	UL94	-	HB(1/16")

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	180 ~ 220
Mold temperature	°C	50 ~ 80
Screw	rpm	30 ~ 80
Back pressure	kg/cm <sup>2</sup>	5 ~ 10
Injection speed	%	500 ~ 900

※ 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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