Hanwha TotalEnergies

Composite PP

GH41

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℃)	ASTM D1238	g/10min	12
Specific gravity	ASTM D792	g/㎤	0.97
Tensile strength (at yield)	ASTM D638	kg/㎠	600
Elongation (at break)	ASTM D638	%	5
Flexural strength	ASTM D790	kg/㎠	850
Flexural modulus	ASTM D790	kg/㎠	28,000
Izod Impact Strength (23℃)	ASTM D256	kg ㎝/㎝	8
Rockwell hardness	ASTM D785	R scale	113
Heat distortion temperature	ASTM D648	℃	160
Shrinkage Ratio	HTC METHOD	%	0.4~1.1
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	℃	180 ~ 220
Mold temperature	℃	50 ~ 80
Screw	rpm	30 ~ 80
Back pressure	kg/㎠	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.

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