Hanwha TotalEnergies

Composite PP

GH43

G/F reinforced PP composite

Application

Automotive E&E parts, Washing machine interior parts, Pulley

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	5
Specific gravity	ASTM D792	g/㎤	1.13
Tensile strength (at yield)	ASTM D638	kg/㎠	1,100
Elongation (at break)	ASTM D638	%	3
Flexural strength	ASTM D790	kg/㎠	1,500
Flexural modulus	ASTM D790	kg/㎠	60,000
Izod Impact Strength (23℃)	ASTM D256	kg ㎝/㎝	13
Rockwell hardness	ASTM D785	R scale	115
Heat distortion temperature	ASTM D648	℃	163
Shrinkage Ratio	HTC METHOD	%	0.2~0.9
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.

Contact information

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