

Composite PP

GH23S

High impact G/F reinforced PP composite

Application

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

Characteristics

Excellent physical properties, High heat resistance, Excellent processability, Low shrinkage, Detergent Resistance (UL2157 certification)

Physical properties

Item	Test Method	Unit	Typical Value
Melt index (230°C)	ASTM D1238	g/10min	3
Specific gravity	ASTM D792	g/cm ³	1.12
Tensile strength (at yield)	ASTM D638	kg/cm ²	1,000
Elongation (at break)	ASTM D638	%	5
Flexural strength	ASTM D790	kg/cm ²	1,350
Flexural modulus	ASTM D790	kg/cm ²	60,000
Izod Impact Strength (23°C)	ASTM D256	kg cm/cm	12
Rockwell hardness	ASTM D785	R scale	110
Heat distortion temperature	ASTM D648	°C	162
Shrinkage Ratio	HTC METHOD	%	0.2~0.9
Flame-retardancy	UL94	-	HB

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 ²	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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