



Composite PP

FH44

Non-dioxin flame retardant PP composite

Application

Characteristics

Physical properties

Automotive E&E parts, Washing machine interior parts, Motor Case

Flame retardant (UL94 V-0 certification), Harmless to human and environment (Non-Dioxin), Long term thermal resistance, Excellent heat deformation resistance

Item	Test Method	Unit	Typical Value
Melt index (230℃)	ASTM D1238	g/10min	5
Specific gravity	ASTM D792	g/cm³	1.32
Tensile strength (at yield)	ASTM D638	kg/cm²	310
Elongation (at break)	ASTM D638	%	30
Flexural modulus	ASTM D790	kg/cm²	32,000
Izod Impact Strength (23℃)	ASTM D256	kg cm/cm	3.7
Rockwell hardness	ASTM D785	R scale	96
Heat distortion temperature	ASTM D648	°C	134
Shrinkage Ratio	HTC METHOD	%	1.0 ~ 1.3
Flame-retardancy	UL94	-	V-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
	- Onne	Typical value
Cylinder temperature (rear)	℃	170 ~ 180
Cylinder temperature (middle)	°C	180 ~ 200
Cylinder temperature (front)	°C	180 ~ 210
Nozzle temperature	°C	190 ~ 220
Mold temperature	°C	40 ~ 70
Injection pressure	kg/cm²	400 ~ 800
Back pressure	kg/cm²	5 ~ 20
Injection speed	%	50 ~ 80

^{*} Actual injection conditions should be adjusted according to the type of injection machine, mold, and part size.





Certification

Hanwha TotalEnergies Petrochemical FH44 is not suitable for food packaging or medical supplies.

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

Contact information

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