

Composite PP

FH44N

Non-dioxin flame retardant PP composite

Application

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

Characteristics

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

Physical properties

Item	Test Method	Unit	Typical Value
Melt index (230°C)	ASTM D1238	g/10min	9
Specific gravity	ASTM D792	g/cm ³	1.27
Tensile strength (at yield)	ASTM D638	kg/cm ²	290
Elongation (at break)	ASTM D638	%	30
Flexural modulus	ASTM D790	kg/cm ²	25,000
Izod Impact Strength (23°C)	ASTM D256	kg cm/cm	8
Rockwell hardness	ASTM D785	R scale	96
Heat distortion temperature	ASTM D648	°C	135
specific gravity	HTC METHOD	%	0.8 ~ 1.1
Flame-retardancy	UL746B	-	120

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
Cylinder temperature (rear)	°C	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/cm ²	400 ~ 800
Back pressure	kg/cm ²	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 FH44N is not suitable for food packaging or medical supplies.

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

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