

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.

Contact information

Hanwha TotalEnergies Petrochemical co. Ltd.
www.htpchem.com

Sales Office
04525 No.92, Sejong-daero, Jung-gu, 16,18-20F, Hanwha
Finance Plaza, Seoul, Republic of Korea
16th floor of Hanwha Financial Plaza

Composite Development Team
31900 103, Dokgot 2-ro, Daesan-eup, Seosan-si,
Chungcheongnam-do, Republic of Korea
T. 041-660-6106 F. 041-660-6089

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