

Hanwha Total PP FB72M

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

FB72M is heat-resistant/light-stability, flame retardant polypropylene using base resins with superior impact resistance to create high-impact strength characteristics.

Due to exceptional light-stability, exposure to ultra-violet light causes little or no discoloration. FB72M is ideal for use in lighting components featuring long-term heat resistance in hot environments.

General Information			
UL YellowCard	E140331-222914		
Features	Impact resistance, high		
	Workability, good		
	Heat resistance, high		
	Thermal stability, good		
	Excellent appearance		
	Flame retardancy		
Uses	Insulating material		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	1.0 - 1.4	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	34.3	MPa	ASTM D638
Tensile Elongation ² (Break)	30	%	ASTM D638
Flexural Modulus ³	1960	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	115	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	V-2		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	170 - 180	°C	
Middle Temperature	180 - 200	°C	

Front Temperature	180 - 200	°C
Nozzle Temperature	190 - 210	°C
Mold Temperature	40.0 - 70.0	°C
Injection Pressure	39.2 - 78.5	MPa
Back Pressure	0.490 - 1.96	MPa

Injection instructions

Injection Speed: 50 to 80 %

NOTE

1.	50 mm/min
2.	50 mm/min
3.	5.0 mm/min

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