

Hanwha Total PP FB72

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

FB72 is a flame retardant polypropylene containing a base resin of superior impact resistance and features high impact strength. A feature of this product is superior flowability that provides excellent processability, high flame retardancy and a neat finish. FB72 is widely used in the exterior parts of electric and electronic products requiring high flame retardancy.

General Information			
UL YellowCard	E140331-222914		
Features	Good dimensional stability		
	Rigidity, high		
	High strength		
	Impact resistance, high		
	Workability, good		
	High liquidity		
	Scratch resistance		
	Heat resistance, high		
	Thermal stability, good		
	Excellent appearance		
Uses	Electrical/Electronic Applications		
	Electrical components		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	30	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	1.1 - 1.5	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	28.4	MPa	ASTM D638
Tensile Elongation ² (Break)	30	%	ASTM D638
Flexural Modulus ³	1520	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	54	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	110	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (0.794 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	170 - 180	°C	
Middle Temperature	180 - 195	°C	
Front Temperature	180 - 195	°C	
Nozzle Temperature	180 - 195	°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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