# Hanwha Total PP FB51

### Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

#### Message:

FB51 uses base resins with superior impact resistance, resulting in exceptionally high impact strength. In particular, FB51 features superior flowability offering excellent processability, high flame retardancy. This compound PP is widely used in electric and electronic component housings.

General Information				
UL YellowCard	E140331-222908			
Features	Good dimensional stability			
	Rigidity, high			
	High strength			
	Impact resistance, high			
	Workability, good			
	High liquidity			
	Thermal stability, good			
	Flame retardancy			
Uses	Electrical/Electronic Applications			
Uses	Electrical components			
	Shell			
	Sileli			
Forms	Particle			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	0.930	g/cm³	ASTM D792	
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238	
Molding Shrinkage - Flow (2.00 mm)	1.5 - 1.9	%	ASTM D955	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness (R-Scale)	90		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength <sup>1</sup> (Yield)	29.4	MPa	ASTM D638	
Tensile Elongation <sup>2</sup> (Break)	200	%	ASTM D638	
Flexural Modulus <sup>3</sup>	1470	MPa	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (23°C)	69	J/m	ASTM D256	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load (0.45 MPa, Unannealed)	120	°C	ASTM D648	
Flammability	Nominal Value		Test Method	

Flame Rating (1.59 mm)	V-2		UL 94
Additional Information			
UL746B: 120 °C			
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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#### Recommended distributors for this material

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