

# Hanwha Total PP FB53

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

## Message:

FB53 uses base resins with superior impact resistance, resulting in exceptionally high impact strength. In particular, FB53 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	E140331-222909		
Features	Good dimensional stability Rigidity, high High strength Impact resistance, high Workability, good High liquidity Thermal stability, good Flame retardancy		
Uses	Electrical/Electronic Applications Electrical components Shell		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	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)	80		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	27.5	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	50	%	ASTM D638
Flexural Modulus <sup>3</sup>	1670	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	135	°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 - 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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