

Hanwha Total PP FB52

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

FB52 uses base resins with superior impact resistance, resulting in exceptionally high impact strength. In particular, FB52 features superior flowability offering excellent processability, high flame retardancy. This compound PP is widely used in electric and electronic component housings.

General Information			
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	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	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)	88		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	28.4	MPa	ASTM D638
Tensile Elongation ² (Break)	30	%	ASTM D638
Flexural Modulus ³	1570	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)	115	°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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