

# Hanwha Total PP TB51

High Crystallinity Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

## Message:

TB51 is a heat-resistant polypropylene compound designed for use in injection molding, and features highly improved strength and heat resistance. TB51 is manufactured by adding an inorganic filler, talc to polypropylene, produced with a variety of base PPs, such as HIPP (High Isotactic or High Crystalline Polypropylene), SAC special processing technology results in the highest quality. This product features superior rigidity and impact strength, long-term heat resistance and anti-static property and dimensional stability. This SAC product is widely used in electric and electronic parts, household appliances and automobiles.

General Information			
Filler / Reinforcement	Talc		
Additive	Antistatic		
Features	Antistatic		
	Good Dimensional Stability		
	Good Processability		
	High Heat Resistance		
	High Impact Resistance		
	High Rigidity		
	High Strength		
Uses	Isophthalic		
	Appliances		
	Automotive Applications		
	Electrical Parts		
	Electrical/Electronic Applications		
	Food Containers		
	Household Goods		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.970	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	1.2 to 1.6	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	34.3	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	60	%	ASTM D638
Flexural Modulus <sup>3</sup>	1960	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)	130	°C	ASTM D648
Injection	Nominal Value	Unit	
Rear Temperature	180 to 200	°C	
Middle Temperature	190 to 210	°C	
Front Temperature	200 to 220	°C	
Mold Temperature	50.0 to 80.0	°C	
Injection Pressure	39.2 to 88.3	MPa	
Holding Pressure	58.8 to 98.1	MPa	
Screw Speed	30 to 80	rpm	
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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