

Hanwha Total PP TH54M

High Crystallinity Polypropylene
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

TH54M is a super-heat-resistant polypropylene compound that exhibits significantly improved strength and heat-resistance due to the addition of the inorganic filler, talc to mo-polypropylene.

This product employs a variety of base PPs, such as HIPP (High Isotactic or High crystalline Polypropylene), and are manufactured with HANWHA TOTAL's special processing technology to ensure quality. Superior rigidity, long-term heat resistance, anti-static property, and dimensional stability are characteristic of these products. super-heat-resistant PP compound is widely used in electric and electronic products that are subject to high temperatures.

General Information			
Filler / Reinforcement	Talc		
Additive	Antistatic		
Features	Antistatic		
	Good Dimensional Stability		
	Good Processability		
	High Heat Resistance		
	High Rigidity		
	High Strength		
	Isophthalic		
Uses	Appliances		
	Electrical Parts		
	Electrical/Electronic Applications		
	Household Goods		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	0.60 to 1.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	102		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	35.3	MPa	ASTM D638
Tensile Elongation ² (Break)	30	%	ASTM D638
Flexural Modulus ³	4310	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	34	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	148	°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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