

Hanwha Total PP TH53

High Crystallinity Polypropylene
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

TH53 is a heat-resistant polypropylene compound product that outperforms the competition. The addition of talc as an inorganic filler to homo-polypropylene provides for enhanced strength and heat-resistance. This product has a variety of base PPs, such as HIPP (High Isotactic or High crystalline Polypropylene), and is manufactured with HANWHA TOTAL's special processing technology for high quality and customer satisfaction. This grade features superior rigidity, long-term heat resistance, anti-static property, as well as dimensional stability. Practical applications include use in electric and electronic product parts and household appliances.

General Information			
UL YellowCard	E140331-222961		
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		
	Food Containers		
	Household Goods		
	Industrial Applications		
	Outdoor Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	0.80 to 1.2	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	37.3	MPa	ASTM D638
Tensile Elongation ² (Break)	20	%	ASTM D638

Flexural Modulus ³	4020	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)	147	°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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