

# Hanwha Total PP KH52T

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

## Message:

KH52T is a polypropylene compound that features superior anti-fungus with possessing balanced strength and impact strength due to use of high-quality base resins.

Outstanding features of this resin are high flowability, superior processability and high resistance to thermal discoloration and to light with excellent external finishes and high anti-fungus properties.

KH52T has passed anti-fungus tests in Korea and Japan, and is widely used for electronic parts and kitchen utensils requiring anti-fungus characteristics.

General Information			
Features	Good dimensional stability		
	Antibacterial property		
	Impact resistance, good		
	Good UV resistance		
	Workability, good		
	Good strength		
	High liquidity		
	Heat resistance, high		
	Medium hardness		
Uses	Kitchen utensils		
	Electrical components		
	Container		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm <sup>3</sup>	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)	103		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	38.2	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	8.0	%	ASTM D638
Flexural Modulus <sup>3</sup>	2750	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	39	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	145	°C	ASTM D648
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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