

Hanwha Total PP CH53W

High Crystallinity Polypropylene
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

CH53W is a polypropylene compound with ultra-weatherability, ideal for use in outdoor products/components such as the exteriors of air conditioners. This grade is polypropylene with a CaCO₃ inorganic filler, so rigidity and heat resistance have been improved. This product is manufactured with a variety of base PPs, including HIPP (High Isotactic Polypropylene), using HANWHA TOTAL's special processing technologies. CH53W offers excellent rigidity and impact-resistance in good balance. Additional features include excellent long-term heat-resistance, high resistance to discoloration, antistatic property and dimensional stability.

General Information			
Additive	Antistatic		
	UV Stabilizer		
Features	Antistatic		
	Good Dimensional Stability		
	Good Processability		
	Good Weather Resistance		
	High Heat Resistance		
	High Impact Resistance		
	High Rigidity		
	Isophthalic		
Uses	Appliances		
	Containers		
	Electrical Parts		
	Electrical/Electronic Applications		
	Housings		
	Industrial Applications		
	Outdoor Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.09	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	1.0 to 1.4	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	31.4	MPa	ASTM D638

Tensile Elongation ² (Break)	30	%	ASTM D638
Apparent Bending Modulus	53.9	MPa	ASTM D747
Flexural Modulus ³	2550	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	44	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	127	°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	40.0 to 80.0	°C	
Injection Pressure	58.8 to 98.1	MPa	
Holding Pressure	39.2 to 88.3	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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