

Hanwha Total PP CI72W

High Crystallinity Polypropylene
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

CI72W 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. CI72W 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			
UL YellowCard	E140331-222902		
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	1.03	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	1.1 to 1.5	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength ¹	36.3	MPa	ASTM D638
Tensile Elongation ² (Break)	30	%	ASTM D638
Apparent Bending Modulus	53.9	MPa	ASTM D747
Flexural Modulus ³	2260	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	37	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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