

Hanwha Total PP WH72

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

WH72 is a high crystalline polypropylene compound featuring superior mechanical properties that include outstanding flexural modulus, surface hardness and tensile strength. WH72 is extremely effective when used on blower fans. Main applications are in products requiring extra weld-line strength. It is also suitable for use in engines and air-conditioning systems due to superior heat-resistance.

General Information			
Additive	Heat Stabilizer		
Features	Crystalline		
	Good Processability		
	Good Thermal Stability		
	Heat Stabilized		
	High Hardness		
	High Heat Resistance		
	High Rigidity		
	High Tensile Strength		
	Recyclable Material		
	Scratch Resistant		
Uses	Automotive Under the Hood		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	22	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0 to 1.4	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	103		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	31.4	MPa	
Break	25.5	MPa	
Tensile Elongation (Break)	30	%	ASTM D638
Flexural Modulus	3040	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)	135	°C	ASTM D648

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