

# Hanwha Total PP GB72

High Crystallinity Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

## Message:

GB72 is a high-impact G/F modified polypropylene compound modified and coupled with glass fiber and PP to improve mechanical rigidity and heat-resistance. Our PP is manufactured by modifying a variety of base PPs, including HIPP (High Isotactic Polypropylene), and elastomers employing special processing technologies. Superb quality makes it ideal for use in automobile switch covers and electric tool housings that require both high rigidity and high-impact strength.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Rigidity, high		
	High tensile strength		
	m-benzene dimethyl		
	Workability, good		
	High liquidity		
	Heat resistance, high		
	Low shrinkage		
Uses	Flame retardancy		
	Electrical/Electronic Applications		
	Electrical appliances		
	Power/other tools		
	Industrial application		
	Household goods		
	Application in Automobile Field		
Forms	Shell		
Processing Method	Particle		
	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	0.30 - 1.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	106		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	78.5	MPa	ASTM D638

Tensile Elongation <sup>2</sup> (Break)	4.0	%	ASTM D638
Apparent Bending Modulus	108	MPa	ASTM D747
Flexural Modulus <sup>3</sup>	3920	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	150	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	161	°C	ASTM D648
Injection	Nominal Value	Unit	
Rear Temperature	170 - 210	°C	
Middle Temperature	170 - 210	°C	
Front Temperature	170 - 210	°C	
Mold Temperature	50.0 - 80.0	°C	
Injection Pressure	39.2 - 68.6	MPa	
Back Pressure	0.490 - 0.981	MPa	
Screw Speed	30 - 80	rpm	
Injection instructions			
Injection Speed: max			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	5.0 mm/min		

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#### Recommended distributors for this material

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