

# Hanwha Total PP GH23

High Crystallinity Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

## Message:

GH23 is a G/F modified polypropylene compound modified by glass fiber filling to improve mechanical rigidity and heat-resistance. It is produced by modifying a variety of base PPs, including HIPP (High Isotactic Polypropylene), with Hanwha's special processing technology. Its excellent quality makes it ideal for use in air conditioner fans and automobile cooling fans; and like products requiring high rigidity and high impact-resistance.

General Information			
UL YellowCard	E140331-222926		
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good dimensional stability		
	Low warpage		
	Rigidity, high		
	High tensile strength		
	High strength		
	m-benzene dimethyl		
	Impact resistance, high		
	Workability, good		
	High liquidity		
	Heat resistance, high		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Electrical appliances		
	Power/other tools		
	Industrial application		
	Mixing		
	Household goods		
	Application in Automobile Field		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	0.20 - 0.90	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	98.1	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	10	%	ASTM D638
Apparent Bending Modulus	132	MPa	ASTM D747
Flexural Modulus <sup>3</sup>	5880	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	162	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	200 - 240	°C	
Middle Temperature	200 - 240	°C	
Front Temperature	200 - 240	°C	
Mold Temperature	50.0 - 80.0	°C	
Injection Pressure	58.8 - 108	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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