

# Hanwha Total PP GB14

High Crystallinity Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

## Message:

GB14 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
	Rigidity, high
	High tensile strength
	m-benzene dimethyl
	Workability, good
	High liquidity
	Heat resistance, high
	Low shrinkage
	Flame retardancy
Uses	Electrical/Electronic Applications
	Electrical appliances
	Power/other tools
	Industrial application
	Household goods
	Application in Automobile Field
	Shell
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	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>	78.5	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	5.0	%	ASTM D638
Apparent Bending Modulus	137	MPa	ASTM D747
Flexural Modulus <sup>3</sup>	6180	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	162	°C	ASTM D648
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

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

