Hanwha Total PP GB52

High Crystallinity Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

GB52 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 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	1.04	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	0.40 - 1.1	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	106		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1]	83.4	MPa	ASTM D638

Tensile Elongation [2] (Break)	5.0	%	ASTM D638
Apparent Bending Modulus	113	MPa	ASTM D747
Flexural Modulus [3]	4020	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)	162	°C	ASTM D648
Injection	Nominal Value	Unit	
Rear Temperature	180 - 220	°C	
Middle Temperature	180 - 220	°C	
Front Temperature	180 - 220	°C	
Mold Temperature	50.0 - 80.0	°C	
Injection Pressure	49.0 - 88.3	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		

Recommended distributors for this material

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