

Hanwha Total PP GB35F

High Crystallinity Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

GB35F is a fire-resistant G/F modified polypropylene compound modified by filling glass fiber to improve mechanical rigidity and heat-resistance. It also possesses excellent flame retardancy. This product can be produced modifying a variety of base PPs, including HIPP (High Isotactic Polypropylene), in HANWHA TOTAL's special processing technology. G/F modified PP is commonly used in making products such as car switch covers, electric tool housings and the like requiring high rigidity, high heat resistance, flame retardancy for outdoor use, and good weatherability.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Low warpage		
	Rigidity, high		
	m-benzene dimethyl		
	Impact resistance, high		
	Workability, good		
	Good weather resistance		
	Heat resistance, high		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Power/other tools		
	Industrial application		
	Shell		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	0.20 - 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	68.6	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Apparent Bending Modulus	88.3	MPa	ASTM D747
Flexural Modulus	5000	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C)	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	160	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.59 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	180 - 220	°C	
Middle Temperature	180 - 220	°C	
Front Temperature	180 - 220	°C	
Mold Temperature	40.0 - 80.0	°C	
Injection Pressure	58.8 - 108	MPa	
Back Pressure	0.490 - 0.981	MPa	
Screw Speed	20 - 70	rpm	
Injection instructions			
Injection Speed: max			
NOTE			
1.	50 mm/min		

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