Hanwha Total PP GB34F

High Crystallinity Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

GB34F 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 and flame retardancy.

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	1.20	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)	0.30 - 0.80	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	103		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	4610	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)	157	°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		

Recommended distributors for this material

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