

Hanwha Total PP NH53G

High Crystallinity Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

NH53G is a polypropylene compound modified by a mica filling to improve mechanical rigidity and heat-resistance. It is produced by modifying a variety of base PPs, including HIPP (High Isotactic Polypropylene), and by HANWHA TOTAL's special processing technologies. This product is commonly used in products such as air conditioner fans and the like, requiring high rigidity, high heat-resistance and low bending.

General Information			
Filler / Reinforcement	Glass \Mica		
Features	Good dimensional stability		
	Low warpage		
	Rigidity, high		
	High temperature strength		
	m-benzene dimethyl		
	Impact resistance, high		
Uses	Heat resistance, high		
	Electrical/Electronic Applications		
	Electrical components		
	Car interior parts		
Forms	Automotive exterior parts		
	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	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)	113		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	58.8	MPa	ASTM D638
Tensile Elongation ² (Break)	5.0	%	ASTM D638
Apparent Bending Modulus	88.3	MPa	ASTM D747
Flexural Modulus ³	6370	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	159	°C	ASTM D648

Flammability	Nominal Value	Test Method
Flame Rating	HB	UL 94
Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0	hr
Rear Temperature	200 - 230	°C
Middle Temperature	200 - 230	°C
Front Temperature	200 - 230	°C
Mold Temperature	40.0 - 70.0	°C
Injection Pressure	29.4 - 49.0	MPa
Back Pressure	0.00	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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