

Hanwha Total PP NH54I

High Crystallinity Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

NH54I 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			
UL YellowCard	E140331-102205749		
Filler / Reinforcement	Mica filler		
Features	Good dimensional stability		
	Low warpage		
	Rigidity, high		
	High temperature strength		
	m-benzene dimethyl		
	Impact resistance, high		
	Heat resistance, high		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Car interior parts		
	Automotive exterior parts		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	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)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	47.1	MPa	ASTM D638
Tensile Elongation ² (Break)	5.0	%	ASTM D638
Apparent Bending Modulus	73.5	MPa	ASTM D747
Flexural Modulus ³	8240	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	27	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	158	°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 - 240	°C	
Middle Temperature	200 - 240	°C	
Front Temperature	200 - 240	°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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