

# Hanwha Total PP SH51

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

SH51 features superior gloss and impact-resistance, and a balance of properties suitable for electric heating equipment. Compared with other brands of Homogeneous PP, SAC products offer higher impact- resistance and long-term thermal stability, making them ideal for use in electric heating equipment and food-related components.

General Information			
UL YellowCard	E140331-222946		
Features	Rigidity, high		
	Highlight		
	Impact resistance, high		
	Workability, good		
	Heat resistance, high		
	Durability		
	Steam resistance		
	Thermal stability, good		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
	Household goods		
	Food container		
	Bathroom products		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.980	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	1.4 - 1.8	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	101		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	36.3	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	50	%	ASTM D638
Flexural Modulus <sup>3</sup>	1860	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	120	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	170 - 190	°C	
Middle Temperature	180 - 200	°C	
Front Temperature	180 - 210	°C	
Nozzle Temperature	180 - 210	°C	
Mold Temperature	50.0 - 70.0	°C	
Injection Pressure	39.2 - 68.6	MPa	
Back Pressure	0.490 - 1.96	MPa	
Injection instructions			
Injection Speed: 40 to 70 %			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	5.0 mm/min		

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