# Hanwha Total PP SI51C

### Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

#### Message:

SI51C is a high gloss polypropylene compound with improved heat resistance. This product has the high heat-resistance required for use in electric heating equipment parts, as well as superior surface gloss and scratch-resistance. SI51C is one of Korea's best high heat-resistant, high glossy compound products. SI51C is designed for the exterior housings of household appliances which require an elegant appearance, such as rice cookers, toasters, irons, jars, pots, and bread makers.

General Information					
UL YellowCard	E140331-222951				
Features	Rigidity, high				
	Highlight				
	m-benzene dimethyl				
	Crystallization				
	Impact resistance, high				
	Workability, good				
	Scratch resistance				
	Heat resistance, high				
	Durability				
	Good appearance				
Hees	Floatrical/Floatropia Applications				
Uses	Electrical appliances				
	Electrical appliances  Household goods				
	Food container				
	Shell				
Forms	Particle				
Processing Method	Injection molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.00	g/cm³	ASTM D792		
Melt Mass-Flow Rate (MFR) (230°C/2.16					
kg)	12	g/10 min	ASTM D1238		
Molding Shrinkage - Flow (2.00 mm)	1.3 - 1.5	%	ASTM D955		
Hardness	Nominal Value	Unit	Test Method		
Rockwell Hardness (R-Scale)	110		ASTM D785		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength <sup>1</sup> (Yield)	39.2	MPa	ASTM D638		
Tensile Elongation <sup>2</sup> (Break)	100	%	ASTM D638		
Flexural Modulus <sup>3</sup>	2450	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)	140	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	НВ		UL 94
Additional Information			
UL746B: 120 °C			
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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#### Recommended distributors for this material

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