

Hanwha Total PP SI81R

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

SI81R is a high-gloss polypropylene compound specially processed for high-flowability and low deformation. TOTAL engineering has resulted in impressively improved grades that are far superior to the low gloss, low productivity and high-warp characteristics extant in other brands. This grade is also designed for application on exterior parts of large home appliances, such as rectangular rice cooker housings.

General Information			
UL YellowCard	E140331-222952		
Features	Crystalline		
	Good Thermal Stability		
	High Flow		
	High Gloss		
	High Heat Resistance		
	High Impact Resistance		
	High Rigidity		
	Isophthalic		
	Low Warpage		
Uses	Appliances		
	Household Goods		
	Housings		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.00	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	50	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	1.2 to 1.4	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	35.3	MPa	ASTM D638
Tensile Elongation ² (Break)	80	%	ASTM D638
Flexural Modulus ³	2160	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	44	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	135	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	5.0 mm/min		

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