

Hanwha Total PP SB52S

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

SB52S is a high gloss polypropylene that features superior surface gloss and extremely high impact-resistance. As the product also offers superior longterm thermal stability, it is suitable for electric heating equipment that requires simultaneous gloss, impact-resistance and thermal stability.

General Information			
UL YellowCard	E140331-222944	E140331-222945	
Features	Highlight		
	Impact resistance, high		
	Workability, good		
	Heat resistance, high		
	Thermal stability, good		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Electrical appliances		
	Food container		
	Bathroom products		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.3 - 1.7	%	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)	29.4	MPa	ASTM D638
Tensile Elongation ² (Break)	60	%	ASTM D638
Flexural Modulus ³	1960	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	122	°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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