

Hanwha Total PP BI51W

High Crystallinity Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

BI51W is a polypropylene compound with super weatherability and is ideal for use in outdoor products such as the exteriors of air-conditioning systems. This grade uses a base PP, such as HIPP (High Isotactic Polypropylene), and is manufactured with special processing technology to provide customers with a product of the best quality. This grade possess heightened rigidity, impact-resistance, long-term heat-resistance, as well as protection against thermal discoloration and anti-static property.

General Information			
UL YellowCard	E140331-222885		
Additive	Antistatic		
Features	Antistatic		
	Good Processability		
	Good Thermal Stability		
	Good Weather Resistance		
	High Heat Resistance		
	High Impact Resistance		
	High Rigidity		
	Isophthalic		
Uses	Containers		
	Electrical Parts		
	Electrical/Electronic Applications		
	Housings		
	Industrial Applications		
	Outdoor Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	1.4 to 1.8	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	85		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	30.4	MPa	ASTM D638
Tensile Elongation ² (Break)	50	%	ASTM D638
Apparent Bending Modulus	40.2	MPa	ASTM D747

Flexural Modulus ³	1420	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	78	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	122	°C	ASTM D648
Injection	Nominal Value	Unit	
Rear Temperature	180 to 200	°C	
Middle Temperature	190 to 210	°C	
Front Temperature	200 to 220	°C	
Mold Temperature	40.0 to 80.0	°C	
Injection Pressure	58.8 to 98.1	MPa	
Holding Pressure	39.2 to 88.3	MPa	
Screw Speed	30 to 80	rpm	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	5.0 mm/min		

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