

Hanwha Total PP TB81W

High Crystallinity Polypropylene
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

TB81W is a super weatherability and heat-resistant polypropylene compound ideally suited for use in air-conditioner exterior parts and other outdoor purposes. We have significantly improved strength and heat-resistance by adding talc, the inorganic filler, to polypropylene. This product is made with a variety of base PP, such as HIPP (High Isotactic Polypropylene). In addition to the characteristics noted above TB81W exhibits excellent impact-resistance, long-term heat-resistance, resistance to thermo-discoloration, anti-static property, and dimensional stability.

General Information			
Filler / Reinforcement	Talc		
Additive	Antistatic		
	UV Stabilizer		
Features	Antistatic		
	Good Dimensional Stability		
	Good Processability		
	Good Weather Resistance		
	High Heat Resistance		
	High Impact Resistance		
	High Rigidity		
	High Strength		
	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	0.940	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	40	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	1.3 to 1.7	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	89		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	45.1	MPa	ASTM D747
Flexural Modulus ³	2260	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	115	°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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