

Hanwha Total PP TB51S

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

TB51S is a high crystalline polypropylene offering superior flexural modulus, surface hardness and tensile strength. TB51S is also effectively used to reduce weights in manufactured products.

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Additive	Antistatic		
Features	Antistatic		
	Crystalline		
	Good Impact Resistance		
	Good Processability		
	High Hardness		
	High Heat Resistance		
	High Tensile Strength		
Uses	Scratch Resistant		
Uses	Automotive Exterior Parts		
	Automotive Interior Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.980	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.2 to 1.6	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	34.3	MPa	
Break	27.5	MPa	
Tensile Elongation (Break)	15	%	ASTM D638
Flexural Modulus	2350	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	34	J/m	
23°C	59	J/m	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	130	°C	ASTM D648

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