

# Hanwha Total PP TB54I

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

TB54I is a high crystalline polypropylene compound featuring superior flexural modulus, surface hardness and tensile strength. TB54I is very effective in reducing material weight. Primary uses include those for shrouds, temperature valves and air cleaner housings. Improvement in the recycling of this product has been accomplished by substituting Nylon+G/F or PP+G/F due to its superior properties. This product is ideally suited for use in engines and air-conditioning system parts due to exceptional heat resistance.

General Information			
UL YellowCard	E140331-222956		
Additive	Antistatic property		
Features	Rigidity, high		
	High tensile strength		
	Crystallization		
	Antistatic property		
	Recyclable materials		
	Workability, good		
	Scratch resistance		
	Heat resistance, high		
	High hardness		
Uses	Parts under the hood of a car		
	Shell		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.60 - 1.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	34.3	MPa	ASTM D638
Fracture	28.4	MPa	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	27	J/m	ASTM D256

23°C	34	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	149	°C	ASTM D648
Additional Information			
Elongation @ Break, ASTM D790: 49000 kg-cm/cm			

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Recommended distributors for this material

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