

Hanwha Total PP TB53H

High Melt Strength Polypropylene
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:
Characteristics: Excellent mechanical strength and heat resistance Good processability Low warpage
Applications: MWO, W/M Parts

General Information			
UL YellowCard	E140331-222955		
Features	Good Processability		
	High Heat Resistance		
	High Strength		
	Low Warpage		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0 to 1.4	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	92		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	34.3	MPa	ASTM D638
Tensile Elongation ² (Break)	50	%	ASTM D638
Flexural Modulus ³	3140	MPa	ASTM D790
Flexural Strength ⁴	51.0	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)	140	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (0.0313 mm)	HB		UL 94
NOTE			
1.	Type I, 50 mm/min		
2.	Type I, 50 mm/min		
3.	5.0 mm/min		
4.	5.0 mm/min		

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