

Hanwha Total PP TI51H

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

TI51H is a high crystalline polypropylene that provides superior mechanical properties, including flexural modulus, surface hardness and tensile strength. Their use will also result in reduced product weight.

General Information			
Additive	Antistatic		
Features	Antistatic		
	Crystalline		
	Good Weather Resistance		
	High Heat Resistance		
	High Tensile Strength		
	Medium Hardness		
	Scratch Resistant		
Uses	Automotive Interior Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.970	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.2	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.4	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	99		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	33.3	MPa	
Break	26.5	MPa	
Tensile Elongation (Break)	70	%	ASTM D638
Flexural Modulus	2840	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	31	J/m	
23°C	58	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	140	°C	ASTM D648

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

