Hanwha Total PP TB53

High Crystallinity Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

TB53 is a heat-resistant polypropylene compound designed for use in injection molding, and features highly improved strength and heat resistance. TB53 is manufactured by adding an inorganic filler, talc to polypropylene, produced with a variety of base PPs, such as HIPP (High Isotactic or High Crystalline Polypropylene), SAC special processing technology results in the highest quality. This product features superior rigidity and impact strength, long-term heat resistance and anti-static property and dimensional stability. This SAC product is widely used in electric and electronic parts, household appliances and automobiles.

General Information	
UL YellowCard	E140331-222955
Filler / Reinforcement	Talc
Additive	Antistatic
Features	Antistatic Good Dimensional Stability Good Processability High Heat Resistance High Impact Resistance High Rigidity High Strength Isophthalic
Uses	Appliances Automotive Applications Electrical Parts Electrical/Electronic Applications Food Containers Household Goods
Forms	Pellets
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	0.80 to 1.2	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	91		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength [1] (Yield)	33.3	MPa	ASTM D638
Tensile Elongation [2] (Break)	60	%	ASTM D638

Flexural Modulus [3]	3430	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	44	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	142	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Rear Temperature	180 to 200	°C	
Middle Temperature	190 to 210	°C	
Front Temperature	200 to 220	°C	
Mold Temperature	50.0 to 80.0	°C	
Injection Pressure	39.2 to 88.3	MPa	
Holding Pressure	58.8 to 98.1	MPa	
Screw Speed	30 to 80	rpm	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	5.0 mm/min		

Recommended distributors for this material

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