Hanwha Total PP TH24

High Crystallinity Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

TH24 is a heat-resistant polypropylene compound product that outperforms the competition. The addition of talc as an inorganic filler to homo-polypropylene provides for enhanced strength and heat-resistance. This product has a variety of base PPs, such as HIPP (High Isotactic or High crystalline Polypropylene), and is manufactured with HANWHA TOTAL's special processing technology for high quality and customer satisfaction. This grade features superior rigidity, long-term heat resistance, anti-static property, as well as dimensional stability. Practical applications include use in electric and electronic product parts and household appliances.

General Information			
UL YellowCard	E140331-222959		
Filler / Reinforcement	Talc		
Additive	Antistatic		
Features	Antistatic Good Dimensional Stability Good Processability High Heat Resistance High Rigidity High Strength Isophthalic		
Uses	Appliances Electrical Parts Electrical/Electronic Applications Food Containers Household Goods Industrial Applications Outdoor Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.22	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	0.60 to 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 [1] (Yield)	35.3	MPa	ASTM D638
Tensile Elongation [2] (Break)	30	%	ASTM D638

Apparent Bending Modulus	71.6	MPa	ASTM D747
Flexural Modulus [3]	4410	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)	150	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (0.794 mm)	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.	50 mm/min		

Recommended distributors for this material

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