Hanwha Total PP TH43S

High Crystallinity Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

TH43S 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	
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	1.11	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	0.90 to 1.3	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	101		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength [1] (Yield)	33.3	MPa	ASTM D638
Tensile Elongation [2] (Break)	20	%	ASTM D638
Flexural Modulus [3]	3330	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	47	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	140	°C	ASTM D648
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

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