

Hanwha Total PP TB72M

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

TB72M is a heat-resistant/light-stability polypropylene compound containing a base resin with superior impact-resistance for high-impact strength and excellent light-stability, keeping discoloration in ultraviolet light to a minimum.

This product is best in lighting components used in high temperature environments.

General Information			
UL YellowCard	E140331-222958		
Filler / Reinforcement	Talc filler		
Additive	UV stabilizer		
Features	High strength		
	Impact resistance, high		
	Workability, good		
	High liquidity		
	Heat resistance, high		
	Thermal stability, good		
	Excellent appearance		
Uses	Insulating material		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	27	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	0.80 - 1.2	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	29.4	MPa	ASTM D638
Tensile Elongation ² (Break)	30	%	ASTM D638
Flexural Modulus ³	2450	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)	133	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	90.0 - 100	°C	

Drying Time	2.0	hr
Rear Temperature	170 - 180	°C
Middle Temperature	180 - 200	°C
Front Temperature	180 - 200	°C
Nozzle Temperature	190 - 210	°C
Mold Temperature	40.0 - 70.0	°C
Injection Pressure	39.2 - 78.5	MPa
Back Pressure	0.490 - 1.96	MPa

Injection instructions

Injection Speed: 50 to 80 %

NOTE

1. 50 mm/min
2. 50 mm/min
3. 5.0 mm/min

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