Hanwha Total PP TB52U

High Crystallinity Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

TB52U is a super weatherability and heat-resistant polypropylene compound ideally suited for use in air-conditioner exterior parts and other outdoor purposes. We have significantly improved strength and heat-resistance by adding talc, the inorganic filler, to polypropylene. This product is made with a variety of base PP, such as HIPP (High Isotactic Polypropylene). In addition to the characteristics noted above TB52U exhibits excellent impact-resistance, long-term heat-resistance, resistance to thermo-discoloration, anti-static property, and dimensional stability. TB52U has received certification for environmental exposure, meeting the UL 746C F1 and UL484 standards.

General Information	
UL YellowCard	E140331-222954
Filler / Reinforcement	Talc
Additive	Antistatic UV Stabilizer
Features	Antistatic Good Dimensional Stability Good Processability Good Weather Resistance High Heat Resistance High Impact Resistance High Rigidity High Strength Isophthalic
Uses	Containers Electrical Parts Electrical/Electronic Applications Housings Industrial Applications Outdoor Applications
Forms	Pellets
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	1.0 to 1.4	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	93		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength [1]	34.3	MPa	ASTM D638
Tensile Elongation [2] (Break)	60	%	ASTM D638
Apparent Bending Modulus	49.0	MPa	ASTM D747
Flexural Modulus [3]	2650	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	83	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	139	°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	40.0 to 80.0	°C	
Injection Pressure	58.8 to 98.1	MPa	
Holding Pressure	39.2 to 88.3	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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