

产品比较

Technical Data

Product Description	
Hostacom 6652	Hostacom 6652 low melt flow, 1,650 MPa flexural modulus polypropylene homopolymer has high strength, excellent impact resistance and good hydrolytic stability.
TAIRIPRO® S1003	Flat Yarn
	CHARACTERISTICS: Good stretchability
	Description
Hanwha Total PP FB51R	Non-flammable PP FB51 and FB51R, which are designed with base resin that has excellent shock resistance, exhibit high shock resistance. In particular, its excellent fluidity allows good formability and nice exterior with high non-flammability so to be Widely used for exterior of electric/electronic parts.
	Characteristics
	FB51R: As non-flammability grade of UL94 V-2, it provides long-term thermal stability as Well as excellent shock resistance in low temperature (-20°C). Thus, it keeps high shock resistance regardless of use circumstance, even in Winter. It is Widely used for exterior of heat transmission/electric/electronic products like a fan heater.
Hanwha Total PP FB51	Applications
	- Fan heater exterior (FB51, FB51R) - Other electric/electronic parts needing shock resistance and non-flammability (FB51, FB51R)
	Description
Hanwha Total PP TB51	Non-flammable PP FB51 and FB51R, which are designed with base resin that has excellent shock resistance, exhibit high shock resistance. In particular, its excellent fluidity allows good formability and nice exterior with high non-flammability so to be Widely used for exterior of electric/electronic parts.
	Characteristics
	FB51: As non-flammability grade of UL94 V-2, it provides fluidity and shock resistance, nice exterior, in particular, long-term thermal stability). Thus, it belongs to UL746B RT1 130 QC Class, the World top standard, as PP material. It is Widely used for exterior of heat transmission/electric/electronic products like a fan heater.
Hanwha Total PP TB51	Applications
	- Fan heater exterior (FB51, FB51R) - Other electric/electronic parts needing shock resistance and non-flammability (FB51, FB51R)
	Description

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Manufactured by adding an inorganic filler, talc to polypropylene, Hanwha Total' s heat-resistant PP compounds are designed for use in injection molding, and feature highly improved strength and heat-resistance. Produced with a variety of base PPs, such as HIPP (High Isotactic or High Crystalline Polypropylene), Hanwha Total' special processing technology results in PP of the highest quality. These products feature superior rigidity and impact strength, long-term heat resistance and anti-static property. Dimensional stability is another plus! These Hanwha Total products are widely used in electric and electronic parts, household appliances and automobiles.

Characteristics

- Addition of an inorganic filler, talc enhances heat-resistance and dimensional stability;
- Superior strength and impact-resistance;
- Superior processability.

Applications

- Electric/electronic products
- Dish washer and microwave oven parts such as doors, air covers, air ducts;
- Washing machines parts (such as balances), and TV speaker cabinets;
- Household goods such as food containers.

General	Hostacom 6652	TAIRIPRO® S1003	Hanwha Total PP FB51R	Hanwha Total PP FB51	Hanwha Total PP TB51
Manufacturer / Supplier	• LyondellBasell Industries	• Formosa Chemicals & Fibre Corporation	• Hanwha Total Petrochemical Co., Ltd.	• Hanwha Total Petrochemical Co., Ltd.	• Hanwha Total Petrochemical Co., Ltd.
Generic Symbol	• PP 均聚物	• PP 均聚物	• TPO	• TPO	• TPO
Filler / Reinforcement	--	--	--	--	• 滑石填料

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General	Hostacom 6652	TAIRIPRO® S1003	Hanwha Total PP FB51R		Hanwha Total PP FB51	Hanwha Total PP TB51	
Features	• 高强度 • 均聚物 • 良好抗撞击性 • 流动性低 • 水解稳定	• 均聚物 • 良好的拉伸性	• 尺寸稳定性良好 • 抗震 • 流动性高 • 耐热性，高 • 阻燃性		• 尺寸稳定性良好 • 抗震 • 流动性高 • 耐热性，高 • 阻燃性	• 尺寸稳定性良好 • 刚性，高 • 高抗撞击性 • 高强度 • 抗静电性 • 耐热性，高 • 优异的加工性能	
Uses	• 工业应用	• 线	• 电气/电子应用领域 • 电气元件		• 电气/电子应用领域 • 电气元件	• 电气/电子应用领域 • 电气元件 • 电器用具 • 家用货品 • 汽车领域的应用 • 食品容器	
Agency Ratings	--	• EC 1907/2006 (REACH) • FDA 21 CFR 177.1520	--		--	--	
RoHS Compliance	--	• RoHS 合规	--		--	--	
UL File Number	--	• E162823	--		--	--	
Processing Method	• 注射成型	• 挤出	• 注射成型		• 注射成型	• 注射成型	

Physical	Hostacom 6652	TAIRIPRO® S1003	Hanwha Total PP FB51R	Hanwha Total PP FB51	Hanwha Total PP TB51	单位制	测试方法
Density / Specific Gravity							
--	0.940	0.898	0.930	0.930	--	g/cm³	ASTM D792
23°C	0.950	--	--	--	--	g/cm³	ISO 1183
--	--	--	--	--	0.970	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR)							
230°C/2.16 kg	2.0	2.3	10	8.0	10	g/10 min	ASTM D1238
230°C/2.16 kg	1.8	--	--	--	--	g/10 min	ISO 1133
Molding Shrinkage - 流动 (2.00 mm)	--	--	1.2 到 1.6	1.5 到 1.9	1.2 到 1.6	%	Internal Method

Mechanical	Hostacom 6652	TAIRIPRO® S1003	Hanwha Total PP FB51R	Hanwha Total PP FB51	Hanwha Total PP TB51	单位制	测试方法
Tensile Strength							
屈服 ⁴	--	--	27.5	29.4	34.3	MPa	ASTM D638
屈服	34.0	--	--	--	--	MPa	ASTM D638 ISO 527-2
屈服, 23°C	--	33.0	--	--	--	MPa	ASTM D638
断裂	19.0	--	--	--	--	MPa	ASTM D638

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Mechanical	Hostacom 6652	TAIRIPRO® S1003	Hanwha Total PP FB51R	Hanwha Total PP FB51	Hanwha Total PP TB51	单位制	测试方法
Tensile Elongation							
屈服	9.0	--	--	--	--	%	ASTM D638 ISO 527-2
断裂	250	--	--	--	--	%	ASTM D638
断裂 ⁴	--	--	150	200	60	%	ASTM D638
断裂, 23°C	--	> 200	--	--	--	%	ASTM D638
Flexural Modulus							
--	1400	--	--	--	--	MPa	ASTM D790
-- ⁵	--	--	--	--	1960	MPa	ASTM D790
-- ⁴	--	--	1230	1470	--	MPa	ASTM D790
23°C	--	1370	--	--	--	MPa	ASTM D790A
--	1650	--	--	--	--	MPa	ISO 178
Impact	Hostacom 6652	TAIRIPRO® S1003	Hanwha Total PP FB51R	Hanwha Total PP FB51	Hanwha Total PP TB51	单位制	测试方法
Notched Izod Impact							
-23°C	--	--	44	--	--	J/m	ASTM D256
23°C	150	--	110	69	54	J/m	ASTM D256
23°C, 3.18 mm	--	37	--	--	--	J/m	ASTM D256
--	11	--	--	--	--	kJ/m²	ISO 180
Hardness	Hostacom 6652	TAIRIPRO® S1003	Hanwha Total PP FB51R	Hanwha Total PP FB51	Hanwha Total PP TB51	单位制	测试方法
Rockwell Hardness							ASTM D785
R 级	97 到 100	--	85	90	95		
R 级, 23°C	--	100	--	--	--		
Thermal	Hostacom 6652	TAIRIPRO® S1003	Hanwha Total PP FB51R	Hanwha Total PP FB51	Hanwha Total PP TB51	单位制	测试方法
Deflection Temperature Under Load							
0.45 MPa, 未退火	88.0	--	100	120	130	°C	ASTM D648
0.45 MPa, 未退火	104	--	--	--	--	°C	ISO 75-2/B
1.8 MPa, 未退火, 6.35 mm	--	110	--	--	--	°C	ASTM D648
Flammability	Hostacom 6652	TAIRIPRO® S1003	Hanwha Total PP FB51R	Hanwha Total PP FB51	Hanwha Total PP TB51	单位制	测试方法
Flame Rating (0.79 mm)	--	--	V-2	V-2	--		UL 94

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Additional Information	Hostacom 6652	TAIRIPRO® S1003	Hanwha Total PP FB51R	Hanwha Total PP FB51	Hanwha Total PP TB51	单位制	测试方法
可燃性 (1.59 mm)	--	--	130	130	--	°C	UL 746B
Injection	Hostacom 6652	TAIRIPRO® S1003	Hanwha Total PP FB51R	Hanwha Total PP FB51	Hanwha Total PP TB51	单位制	
Drying Temperature	--	--	90 到 100	90 到 100	--	°C	
Drying Time	--	--	2.0	2.0	--	hr	
Rear Temperature	--	--	170 到 180	170 到 180	180 到 200	°C	
Middle Temperature	--	--	180 到 200	180 到 200	190 到 210	°C	
Front Temperature	--	--	180 到 200	180 到 200	200 到 220	°C	
Nozzle Temperature	--	--	190 到 210	190 到 210	--	°C	
Mold Temperature	--	--	40 到 70	40 到 70	50 到 80	°C	
Injection Pressure	--	--	39.2 到 78.5	39.2 到 78.5	39.2 到 88.3	MPa	
Holding Pressure	--	--	--	--	58.8 到 98.1	MPa	
Back Pressure	--	--	0.490 到 1.96	0.490 到 1.96	--	MPa	
Screw Speed	--	--	--	--	30 到 80	rpm	
Extrusion	Hostacom 6652	TAIRIPRO® S1003	Hanwha Total PP FB51R	Hanwha Total PP FB51	Hanwha Total PP TB51	单位制	
Melt Temperature	--	200 到 270	--	--	--	°C	
Die Temperature	--	280 到 290	--	--	--	°C	