

产品比较

Technical Data

产品说明

	Description
Hanwha Total PP HJ730	<p>HJ730 is a highly isotactic Homo PP(HIPP) with high crystal-line properties compared to normal Homo PP. The product's crystalline properties have enhanced its strength and heat resistance. HJ730 is highly useful for use in electrical/electronic appliances and high strength automobile parts which are exposed to lengthy periods of high temperatures.</p> <p>Characteristics</p> <p>Unique balance of flowability and impact resistance: processing of large scale parts</p> <ul style="list-style-type: none">• High strength - thin injection molded products may be formed• Ultra-high heat resistance - high service temperature• High crystallinity - suitable for high speed processing• Good surface hardness - excellent scratch resistance• Good pigment dispersion - allows for dry coloring <p>Applications</p> <ul style="list-style-type: none">• Home appliance such as coffee maker, kettle, etc
INEOS PP H20A-00	<p>H20A-00 is a controlled rheology homopolymer designed for injection molding applications requiring a moderate level of antistatic agent. Typical applications include consumer products, housewares and rigid packaging. It meets the requirements of the U.S. Food and Drug Administration as specified in 21CFR 177.1520.</p> <p>Polypropylene 3720WZ has high flow characteristics that result in ease of filling thin wall parts.</p> <p>Nucleation: TOTAL Polypropylene 3720WZ is nucleated to provide fast cycle time and improved contact clarity in thin wall, multi-cavity molds.</p>
TotalEnergies Polypropylene 3720WZ	<p>Antistat: TOTAL Polypropylene 3720WZ contains an antistat that will help protect molded parts from dust accumulation.</p> <p>FDA: TOTAL Polypropylene 3720WZ complies with all applicable FDA regulations for food contact applications.</p> <p>Recommended Applications: TOTAL Polypropylene 3720WZ is recommended for caps, closures, and thin wall containers.</p> <p>Processing: TOTAL Polypropylene 3720WZ resin processes on conventional injection molding equipment with typical melt temperatures of 380-450°F (200-232°C).</p>
FHR Polypropylene P4C5T-013	<p>DESCRIPTION: Homopolymer for injection molding.</p> <p>FEATURES: Contains antistatic agent. Produced without animal derived components or phthalates.</p> <p>APPLICATIONS: Rigid packaging and housewares.</p>
Topilene® J801R	<p>Topilene® J801R is a specially designed high isotactic polypropylene homopolymer that features high stiffness, high flowability and excellent long term heat stability. It is suitable for small home electronic appliances. Topilene® J801R complies with FDA requirements in</p>



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the code of Federal Regulations in 21 CFR 177.1520 for food contact. It complies with UL Standard for Safety for Polymeric Materials - Long Term Property Evaluations, UL 746B.

Characteristics:

Typical Application:

Small home electronic appliances(Toasters, Coffee makers, Steam irons, etc)

Features:

Long-term heat resistance(UL 94HB, 746B) / High stiffness / Excellent surface hardness / High crystallization temperature (Short cycle time)

总览	Hanwha Total PP HJ730	INEOS PP H20A-00	TotalEnergies Polypropylene 3720WZ	FHR Polypropylene P4C5T-013	Topilene® J801R
生产商/供应商	• Hanwha Total Petrochemical Co., Ltd.	• INEOS Olefins & Polymers USA	• TotalEnergies	• Flint Hills Resources, LP	• Hyosung Chemical Corporation
通用符号	• PP 均聚物	• PP 均聚物	• PP 均聚物	• PP 均聚物	• PP 均聚物
添加剂	--	• 抗静电性	• 成核剂 • 抗静电性	• 抗静电性	--
特性	<ul style="list-style-type: none"> • Good Hardness • 等规度高 • 高结晶 • 高强度 • 均聚物 • 抗划伤性高 • 快的成型周期 • 良好的着色性 • 耐热性，高 • 食品接触的合规性 	<ul style="list-style-type: none"> • 均聚物 • 抗静电性 • 可控流变 • 食品接触的合规性 	<ul style="list-style-type: none"> • 成核的 • 均聚物 • 抗静电性 • 快的成型周期 • 流动性高 • 食品接触的合规性 • 外观透明 	<ul style="list-style-type: none"> • 均聚物 • 抗静电性 • 无动物源性成分 	<ul style="list-style-type: none"> • 等规度高 • 高刚性 • 高结晶 • 均聚物 • 流动性高 • 耐热老化性能，良好 • 硬度高
用途	<ul style="list-style-type: none"> • 电气/电子应用领域 • 电器用具 • 汽车领域的应用 	<ul style="list-style-type: none"> • 家用货品 • 消费品应用领域 • 硬包装 	<ul style="list-style-type: none"> • 薄壁部件 • 薄壁容器 • 护罩 • 外壳 	<ul style="list-style-type: none"> • 家用货品 • 硬包装 	<ul style="list-style-type: none"> • 电气/电子应用领域 • 电器用具



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机构评级	• FDA 21 CFR 177.1520	• FDA 21 CFR 177.1520	• FDA 食品接触	• DMF • FDA 21 CFR 177.1520(c) 1.1a	• FDA 21 CFR 177.1520
RoHS 合规性	--	• 联系制造商	--	• 联系制造商	--
形式	--	• 粒子	• 粒子	• 粒子	--
加工方法	• 注射成型	• 注射成型	• 注射成型	• 注射成型	--

物理性能	Hanwha Total PP HJ730	INEOS PP H20A-00	TotalEnergies Polypropylene 3720WZ	FHR Polypropylene P4C5T-013	Topilene® J801R	单位制	测试方法
密度 / 比重	--	0.908	--	--	0.900	g/cm ³	ASTM D792
--	0.910	--	0.905	0.900	--	g/cm ³	ASTM D1505
熔流率 (熔体流动速率) (230°C/2.16 kg)	20	20	20	20	20	g/10 min	ASTM D1238

机械性能	Hanwha Total PP HJ730	INEOS PP H20A-00	TotalEnergies Polypropylene 3720WZ	FHR Polypropylene P4C5T-013	Topilene® J801R	单位制	测试方法
拉伸模量	--	--	1790	--	--	MPa	ASTM D638
抗张强度							ASTM D638
屈服	36.3	--	--	34.0	41.2	MPa	
屈服, 注塑 ⁴	--	36.4	--	--	--	MPa	
断裂, 注塑 ⁴	--	20.1	--	--	--	MPa	
--	--	--	37.9	--	--	MPa	
伸长率							ASTM D638
屈服	--	--	--	9.0	--	%	
屈服, 注塑 ⁴	--	9.7	--	--	--	%	
断裂	200	--	13	--	--	%	
断裂, 注塑 ⁴	--	< 100	--	--	--	%	
弯曲模量							
--	1670	--	1520	--	2110	MPa	ASTM D790
1% 正割	--	--	--	1240	--	MPa	ASTM D790
1% 正割: 注塑	--	1600	--	--	--	MPa	ASTM D790A



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冲击性能	Hanwha Total PP HJ730	INEOS PP H20A-00	TotalEnergies Polypropylene 3720WZ	FHR Polypropylene P4C5T-013	Topilene® J801R	单位制	测试方法
悬壁梁缺口冲击强度							
23°C	29	--	--	20	32	J/m	ASTM D256
23°C	--	--	27	--	--	J/m	ASTM D256A
23°C, 注塑	--	27	--	--	--	J/m	ASTM D256
悬壁梁缺口冲击强度 (23°C, 注塑)	--	2.70	--	--	--	kJ/m ²	ASTM D256
无缺口悬臂梁冲击 (23°C)	--	--	1100	--	--	J/m	ASTM D4812
落锤冲击 (23°C)	--	--	--	6.00	--	J	ASTM D5420
硬度	Hanwha Total PP HJ730	INEOS PP H20A-00	TotalEnergies Polypropylene 3720WZ	FHR Polypropylene P4C5T-013	Topilene® J801R	单位制	测试方法
洛氏硬度							ASTM D785
R 级	105	--	107	105	110		
R 级, 注塑	--	104	--	--	--		
热性能	Hanwha Total PP HJ730	INEOS PP H20A-00	TotalEnergies Polypropylene 3720WZ	FHR Polypropylene P4C5T-013	Topilene® J801R	单位制	测试方法
载荷下热变形温度							ASTM D648
0.45 MPa, 未退火	120	--	127	93.0	140	°C	
0.45 MPa, 未退火, 注塑	--	102	--	--	--	°C	
维卡软化温度	--	--	--	--	155	°C	ASTM D1525
熔融温度							
--	--	--	166	--	--	°C	DSC
--	--	--	--	160 到 165	--	°C	ASTM D3418
可燃性	Hanwha Total PP HJ730	INEOS PP H20A-00	TotalEnergies Polypropylene 3720WZ	FHR Polypropylene P4C5T-013	Topilene® J801R	单位制	测试方法
UL 阻燃等级	--	--	--	HB	HB		UL 94
光学性能	Hanwha Total PP HJ730	INEOS PP H20A-00	TotalEnergies Polypropylene 3720WZ	FHR Polypropylene P4C5T-013	Topilene® J801R	单位制	测试方法
光泽度 (60°, 注塑)	--	94	--	--	--		ASTM D2457
补充信息							

FHR Polypropylene
P4C5T-013

Notice regarding medical applications:

This Flint Hills product meets certain requirements for use in medical applications. It is the responsibility of the medical device or pharmaceutical manufacturer to determine that this Flint Hills product is safe, lawful and technically suitable for the intended use. Flint Hills encourages its customers to review their application with a Flint Hills technical representative to ensure that this product is not used in ways for which it was not intended. Flint Hills makes no warranties (express or implied), promises or guarantees concerning the suitability of this product for use in any given medical application.



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加工 (熔体) 温度	--	--	193 到 232	--	--	°C

