

Technical Data

产品说明

TOTAL Polypropylene
Lumicene® MR 10MX0

Lumicene® MR10MX0 is a metallocene random copolymer with a Melt Flow Index of 10 g/10 min for injection moulding, injection blow moulding, injection stretch blow moulding and extrusion blow moulding. Lumicene® MR10MX0 differs from the other random copolymers by its moulding reproducibility, outstanding organoleptic properties combined with low extractables, outstanding transparency and gloss.

Producers of rigid food packaging including baby bottles, caps and closures, medical device and packaging, houseware and kitchenware will take full advantage of the new Lumicene® random metallocene product range.

We hereby confirm that we do not use peroxide in the manufacturing of the above-mentioned Product.

FHR Polypropylene
P5M4K-046

DESCRIPTION: Random copolymer for injection molding.

FEATURES: Clarified. Produced without animal derived components or phthalates.

APPLICATIONS: Caps and closures, containers, consumer products.

RANPELEN
J-560M

J-560M is a nucleated random copolymer for injection molding applications. This grade is designed to be processed in conventional injection molding equipment and offers super high transparency, good stiffness/impact strength balance, high gloss, high hinge property and low smell. In particular, J-560M is suitable for medical application demanded gamma-ray sterilization. This grade satisfied the standard of USP Class VI and FDA.

(FDA DMF Number: 27050). J-560M is a 'Phthalate-Free' product.

总览	TOTAL Polypropylene Lumicene® MR 10MX0	FHR Polypropylene P5M4K-046	RANPELEN J-560M
生产商/供应商	• TOTAL	• Flint Hills Resources, LP	• Lotte Chemical Corporation
通用符号	• PP 无规共聚物	• PP 无规共聚物	• PP 无规共聚物
材料状态	• 已商用：当前有效	• 已商用：当前有效	• 已商用：当前有效
资料 ¹	• Technical Datasheet (English)	• Technical Datasheet (English)	• Technical Datasheet (English)
UL 黄卡 ²	• E72824-102618450	--	--
搜索 UL 黄卡	• TOTAL	• Flint Hills Resources, LP	• Lotte Chemical Corporation
供货地区	• 欧洲	• 北美洲 • 欧洲	• 北美洲 • 欧洲 • 亚太地区
添加剂	--	• 澄清剂	• 成核剂
特性	<ul style="list-style-type: none"> • 低萃取物 • 高光 • 良好的感官特征 • 清晰度，高 • 无规共聚物 	<ul style="list-style-type: none"> • 清晰度，高 • 无动物源性成分 • 无规共聚物 	<ul style="list-style-type: none"> • 成核的 • 辐射消毒 • 高光 • 抗伽马辐射 • 良好刚性 • 良好抗撞击性 • 气味低到无 • 清晰度，高 • 无规共聚物



总览	TOTAL Polypropylene Lumicene® MR 10MX0	FHR Polypropylene P5M4K-046	RANPELEN J-560M
用途	<ul style="list-style-type: none"> • Rigid Food Packaging • 厨具 • 护罩 • 家用货品 • 瓶子 • 外壳 • 医疗器械 • 医用包装 	<ul style="list-style-type: none"> • 护罩 • 容器 • 外壳 • 消费品应用领域 	<ul style="list-style-type: none"> • 食品容器 • 文具 • 医疗/护理用品
机构评级	<ul style="list-style-type: none"> • EC 1907/2006 (REACH) 	<ul style="list-style-type: none"> • DMF 未评级 • FDA 21 CFR 177.1520(c) 3.1a • USP 88 • USP 第 VI 类 	<ul style="list-style-type: none"> • DMF 27050 • USP 第 VI 类
RoHS 合规性	<ul style="list-style-type: none"> • RoHS 合规 	<ul style="list-style-type: none"> • 联系制造商 	<ul style="list-style-type: none"> • RoHS 合规
外观	<ul style="list-style-type: none"> • 清晰/透明 	--	--
形式	<ul style="list-style-type: none"> • 粒子 	<ul style="list-style-type: none"> • 粒子 	--
加工方法	<ul style="list-style-type: none"> • Injection Stretch Blow Molding • 注射成型 	<ul style="list-style-type: none"> • 注射成型 	<ul style="list-style-type: none"> • 注射成型

物理性能	TOTAL Polypropylene Lumicene® MR 10MX0	FHR Polypropylene P5M4K-046	RANPELEN J-560M	单位制	测试方法
密度 / 比重	--	--	0.900	g/cm³	ASTM D792
--	0.902	--	0.900	g/cm³	ISO 1183
--	--	0.900	--	g/cm³	ASTM D1505
表观密度	0.53	--	--	g/cm³	ISO 1183
熔流率 (熔体流动速率)					
230°C/2.16 kg	--	10	18	g/10 min	ASTM D1238
230°C/2.16 kg	10	--	18	g/10 min	ISO 1133



机械性能	TOTAL Polypropylene Lumicene® MR 10MX0	FHR Polypropylene P5M4K-046	RANPELEN J-560M	单位制	测试方法
拉伸模量	1250	--	--	MPa	ISO 527-2
抗张强度					
屈服	--	33.0	29.0	MPa	ASTM D638
屈服	31.0	--	26.0	MPa	ISO 527-2
伸长率					
屈服	--	11	--	%	ASTM D638
屈服	10	--	--	%	ISO 527-2
断裂	--	--	> 100	%	ASTM D638 ISO 527-2
弯曲模量					
--	--	--	1180	MPa	ASTM D790
1% 正割	--	1110	--	MPa	ASTM D790
--	1200	--	970	MPa	ISO 178
冲击性能	TOTAL Polypropylene Lumicene® MR 10MX0	FHR Polypropylene P5M4K-046	RANPELEN J-560M	单位制	测试方法
悬壁梁缺口冲击强度					
-10°C	--	--	29	J/m	ASTM D256
-10°C	--	--	24	J/m	ISO 180
23°C	--	70	54	J/m	ASTM D256
23°C	--	--	49	J/m	ISO 180
23°C	5.0	--	--	kJ/m²	ISO 180
落锤冲击 (23°C)	--	> 36.2	--	J	ASTM D5420
硬度	TOTAL Polypropylene Lumicene® MR 10MX0	FHR Polypropylene P5M4K-046	RANPELEN J-560M	单位制	测试方法
洛氏硬度 (R 级)	--	94	95		ASTM D785
热性能	TOTAL Polypropylene Lumicene® MR 10MX0	FHR Polypropylene P5M4K-046	RANPELEN J-560M	单位制	测试方法
载荷下热变形温度					
0.45 MPa, 未退火	--	82.0	95.0	°C	ASTM D648
0.45 MPa, 未退火	--	--	85.0	°C	ISO 75-2/B
熔融峰值温度					
--	--	145 到 152	--	°C	ASTM D3418
--	140	--	--	°C	ISO 3146



光学性能	TOTAL Polypropylene Lumicene® MR 10MX0	FHR Polypropylene P5M4K-046	RANPELEN J-560M	单位制	测试方法
雾度					ASTM D1003
--	--	--	20.0	%	
635 μm	--	6.50	--	%	

补充信息

FHR Polypropylene
P5M4K-046

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 or tested. Flint Hills makes no warranties (express or implied), promises or guarantees concerning the suitability of this product for use in any given medical application. Not intended for use in the manufacture of any form of implanted medical or surgical device.

This product is not recommended for autoclave sterilization processes in the presence of aqueous solutions.

备注

¹ 通过这些链接您能够访问供应商资料。我们尽量保证及时更新资料；不过您可以从供应商处了解最新资料。

² UL 黄卡含有 UL 验证的易燃性和电气特性。UL Prospector 持续努力在 Prospector 中将黄卡链接至单个塑料材料，然而此列表可能未包括所有相应链接。重要的是，我们对 Prospector 中找到的这些黄卡和塑料材料之间的关联进行验证。如需完整的黄卡列表，请访问 UL 黄卡搜索。

³ 一般属性：这些不能被视为规格。



购买地点

供应商	
TOTAL Polypropylene Lumicene® MR 10MX0	TOTAL Houston, TX USA 电话: 800-344-3462 (US); +33-1-47-44-45-46 (EU) Web: https://www.polymers.total.com
FHR Polypropylene P5M4K-046	Flint Hills Resources, LP Wichita, KS USA 电话: 800-985-7303 Web: http://www.fhr.com/
RANPELEN J-560M	Lotte Chemical Corporation Seoul, South Korea 电话: +82-2-829-4114 Web: http://english.lottechem.com/



分销商

TOTAL Polypropylene Lumicene® MR
10MX0**RESINEX Group***RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.*

电话: +32-14-672511

Web: <http://www.resinex.com/>

供货地区: Czech Republic, Hungary, Slovakia

TER HELL Plastic GmbH*TER HELL Plastic is a Pan European distribution company. Contact TER HELL Plastic for availability of individual products by country.*

电话: +49-2366-5661-0

Web: <https://www.terplastics.com/>

供货地区: France, Germany, Poland, Spain

FHR Polypropylene P5M4K-046

Amco Polymers

电话: 800-262-6685

Web: <http://www.amcopolymers.com/>

供货地区: North America

Avient Distribution (formerly PolyOne Distribution)*Avient Distribution is a global distribution company. Contact Avient Distribution for availability of individual products by country.*

电话: +1-888-502-0951 (USA); +86-21-6028-4805 (China)

Web: <https://www.avientdistribution.com/>

供货地区: Global

M. Holland Canada Company

电话: 905-665-1168

Web: <http://www.mholland.com/>

供货地区: Canada

M. Holland Company

电话: 855-497-1403

Web: <http://www.mholland.com/>

供货地区: Mexico, United States

Nexeo Plastics*Nexeo Plastics is leading global resin distributor with the technical resources you need to overcome material challenges. Visit us on the web at www.nexeoplastics.com.*

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Web: <https://www.nexeoplastics.com/>

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Web: <https://www.nexeoplastics.com/>

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RANPELEN J-560M

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Web: <http://www.apikolon.com/>

供货地区: Mexico, North America, South America

General Polymers Thermoplastic Materials

电话: 248-762-7676

Web: <https://www.gp-materials.com/our-partners>

供货地区: North America

SNETOR Distribution

SNETOR Distribution is a Pan European distribution company. Contact SNETOR for availability of individual products by country.

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Web: <http://www.snetor.com/>

供货地区: Africa & Middle East

