

Technical Data

产品说明

Moplen EP300K	"Moplen" EP300K is a low fluidity heterophasic copolymer, suitable for injection moulding applications. The product exhibits very high impact even at low temperature combined with a good stiffness. "Moplen" EP300K is typically used in houseware items and in crates. Moplen EP300K resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact.
TITANPRO® SM398	<p>Polypropylene random copolymer. Titanpro SM398 is a clarified grade designed for high transparency articles. The base resin meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520(a)(3)(i) and (c)3.1a. The adjuvant meet their respective FDA regulations and 21 CFR 177.1520(b). In summary, this resin meets the FDA criteria covering safe use of polyolefin articles and component of articles intended for food contact use. TSCA Registry: CAS# 9010-79-1.</p> <p>APPLICATIONS: High transparency containers, housewares, stationeries.</p> <p>ADVANTAGES: Excellent clarity. Low blooming. Good surface finish and color. Cycle time reduction with low processing melt temperature. Utilities cost saving. Good balance of rigidity and impact resistance.</p> <p>FABRICATION Equipment - ram and screw injection machines. Techniques - standard processing.</p>
Moplen RP348N	Moplen RP348N is a polypropylene random copolymer, with high clarity, superior appearance, excellent flowability, good stiffness / impact balance and good dimensional stability. Typical applications include food containers, household containers, thin wall food packaging, clear ISBM bottles, furniture.
Moplen RP348NK	<p>Moplen RP348NK is a nucleated polypropylene random copolymer manufactured by PolyMirae using Spheripol process technology licensed from LyondellBasell.</p> <p>Moplen RP348NK is specially designed for good processability and excellent clarity in low processing temperature with balanced mechanical properties.</p> <p>Moplen RP348NK is a random copolymer particularly suitable for injection molding of transparency containers and boxes of small size, houseware, food container, bottles(IBM/ISBM), caps and lids.</p> <p>Moplen RP348NK meets the FDA requirement in the code of Federal Regulations in 21 CFR 177.1520 for food contact.</p> <p>Product Features Good processability and excellent clarity in low processing temperature/High productivity with shorter cycle time than conventional random PP/Less bubbles(Voids) in final products/High gloss/Good mechanical property balance/Low odor and low taste transfer</p> <p>Typical Applications Transparency containers and boxes of small size, Houseware, Food container, Bottles(IBM/ISBM), Caps and lids, etc</p>



TotalEnergies 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.

总览	Moplen EP300K	TITANPRO® SM398	Moplen RP348N	Moplen RP348NK	TotalEnergies Polypropylene Lumicene® MR 10MX0
生产商/供应商	• PolyMirae	• Lotte Chemical Titan (M) Sdn. Bhd.	• LyondellBasell Industries	• PolyMirae	• TotalEnergies
通用符号	• 抗撞击 PP 均聚物	• PP 无规共聚物	• 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	• 已商用：当前有效	• 已商用：当前有效
资料 ¹	• Technical Datasheet - ASTM (English)	• Technical Datasheet (English)	• Processing - Extrusion (English) • Processing - Injection Molding (English) • Processing - Mold Shrink (English) • Technical Datasheet (English)	• Technical Datasheet (English)	• Technical Datasheet (English)
UL 黄卡 ²	--	--	--	--	• E72824-102618450
搜索 UL 黄卡	• PolyMirae • Moplen	• Lotte Chemical Titan (M) Sdn. Bhd.	• LyondellBasell Industries • Moplen	• PolyMirae • Moplen	• TotalEnergies
供货地区	• 亚太地区	• 亚太地区	• 非洲和中东 • 亚太地区	• 亚太地区	• 欧洲
添加剂	--	• 澄清剂	--	• 成核剂	--
特性	<ul style="list-style-type: none"> • 超高抗冲击性 • 低翘曲性 • 良好刚性 • 流动性低 • 耐低温冲击 • 食品接触的合规性 	<ul style="list-style-type: none"> • 低模糊现象 • 快的成型周期 • 良好的强度 • 良好抗撞击性 • 清晰度，高 • 食品接触的合规性 • 无规共聚物 • 优良外观 	<ul style="list-style-type: none"> • 尺寸稳定性良好 • 良好的加工性能 • 良好的流动性 • 良好刚性 • 良好抗撞击性 • 清晰度，高 • 外观良好 • 无规共聚物 	<ul style="list-style-type: none"> • 成核的 • 高光 • 较低的气味转移性 • 较低的味道转移性 • 快的成型周期 • 良好的加工性能 • 清晰度，高 • 食品接触的合规性 • 无规共聚物 	<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



总览	Moplen EP300K	TITANPRO® SM398	Moplen RP348N	Moplen RP348NK	TotalEnergies Polypropylene Lumicene® MR 10MX0
用途	<ul style="list-style-type: none"> 电气/电子应用领域 家用货品 装货箱 	<ul style="list-style-type: none"> 家用货品 容器 文具 	<ul style="list-style-type: none"> 包装 薄壁包装 护罩 家具 家用货品 瓶子 容器 食品包装 食品容器 外壳 消费品应用领域 	<ul style="list-style-type: none"> 盖子 护罩 家用货品 瓶子 容器 食品容器 	<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
机构评级	<ul style="list-style-type: none"> FDA 21 CFR 177.1520 	<ul style="list-style-type: none"> FDA 21 CFR 177.1520(a) 3 (i) FDA 21 CFR 177.1520(b) FDA 21 CFR 177.1520(c) 3.1a TSCA Listed on Inventory³ 	--	<ul style="list-style-type: none"> FDA 21 CFR 177.1520 	<ul style="list-style-type: none"> EC 1907/2006 (REACH)
RoHS 合规性	<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 	<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"> 注射成型 	<ul style="list-style-type: none"> 注射成型 	<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"> Injection Stretch Blow Molding 注射成型

物理性能	Moplen EP300K	TITANPRO® SM398	Moplen RP348N	Moplen RP348NK	TotalEnergies Polypropylene Lumicene® MR 10MX0	单位制	测试方法
密度 / 比重	--	--	0.900	--	--	g/cm³	ASTM D792B
	--	--	--	--	0.902	g/cm³	ISO 1183
	0.900	0.900	--	0.900	--	g/cm³	ASTM D1505
表观密度	--	--	--	--	0.53	g/cm³	ISO 1183
熔速率 (熔体流动速率)							
230°C/2.16 kg	4.0	11	11	11	--	g/10 min	ASTM D1238
230°C/2.16 kg	--	--	--	--	10	g/10 min	ISO 1133
吸水率 (24 hr)	--	0.020	--	--	--	%	ASTM D570



机械性能	Moplen EP300K	TITANPRO® SM398	Moplen RP348N	Moplen RP348NK	TotalEnergies Polypropylene Lumicene® MR 10MX0	单位制	测试方法
拉伸模量	--	--	--	--	1250	MPa	ISO 527-1
抗张强度							
屈服	25.5	26.5	29.0	28.4	--	MPa	ASTM D638
屈服	--	--	--	--	31.0	MPa	ISO 527-2
伸长率							
屈服	7.0	14	13	13	--	%	ASTM D638
屈服	--	--	--	--	10	%	ISO 527-2
弯曲模量							
--	1230	--	--	1050	--	MPa	ASTM D790
--	--	--	1050	--	--	MPa	ASTM D790A
--	--	1030	--	--	--	MPa	ASTM D790B
--	--	--	--	--	1200	MPa	ISO 178
冲击性能	Moplen EP300K	TITANPRO® SM398	Moplen RP348N	Moplen RP348NK	TotalEnergies Polypropylene Lumicene® MR 10MX0	单位制	测试方法
悬壁梁缺口冲击强度							
-20°C	49	--	--	--	--	J/m	ASTM D256
23°C	98	--	--	69	--	J/m	ASTM D256
23°C	--	59	70	--	--	J/m	ASTM D256A
23°C	--	--	--	--	5.0	kJ/m²	ISO 180
硬度	Moplen EP300K	TITANPRO® SM398	Moplen RP348N	Moplen RP348NK	TotalEnergies Polypropylene Lumicene® MR 10MX0	单位制	测试方法
洛氏硬度 (R 级)	--	80	--	93	--		ASTM D785
热性能	Moplen EP300K	TITANPRO® SM398	Moplen RP348N	Moplen RP348NK	TotalEnergies Polypropylene Lumicene® MR 10MX0	单位制	测试方法
载荷下热变形温度 (0.45 MPa, 未退火)	100	80.0	86.0	86.0	--	°C	ASTM D648
维卡软化温度	148	--	--	--	--	°C	ASTM D1525
熔融温度 (DSC)	--	--	--	--	140	°C	ISO 3146
光学性能	Moplen EP300K	TITANPRO® SM398	Moplen RP348N	Moplen RP348NK	TotalEnergies Polypropylene Lumicene® MR 10MX0	单位制	测试方法
雾度	--	--	--	14.5	--	%	ASTM D1003



补充信息	Moplen EP300K	TITANPRO® SM398	Moplen RP348N	Moplen RP348NK	TotalEnergies Polypropylene Lumicene® MR 10MX0	单位制
收缩性	--	1.3 到 1.4	--	--	--	%

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 CAS# 9010-79-1
- ⁴ 一般属性：这些不能被视为规格。



购买地点

供应商	
Moplen EP300K	PolyMirae Seoul, Seoul South Korea 电话: +82-2-2167-8955 Web: http://www.polymirae.com/
TITANPRO® SM398	Lotte Chemical Titan (M) Sdn. Bhd. Kuala Lumpur, Kuala Lumpur Malaysia 电话: +60-3-2093-4222 Web: http://www.lottechem.my/
Moplen RP348N	LyondellBasell Industries Wilmington, Wilmington USA 电话: 713-309-7200 Web: https://www.lyondellbasell.com/
Moplen RP348NK	PolyMirae Seoul, Seoul South Korea 电话: +82-2-2167-8955 Web: http://www.polymirae.com/
TotalEnergies Polypropylene Lumicene® MR 10MX0	TotalEnergies Houston, Houston USA 电话: 800-344-3462 (US); +33-1-47-44-45-46 (EU) Web: https://polymers.totalenergies.com/



分销商

Moplen EP300K	请联系供应商以便为 Moplen EP300K 查找分销商
TITANPRO® SM398	请联系供应商以便为 TITANPRO® SM398 查找分销商
Moplen RP348N	<p>ALBIS Plastic <i>ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.</i> 电话: +49-40-78105-0 Web: http://www.albis.com/ 供货地区: Algeria, Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tunisia, Turkey, United Kingdom</p>
Moplen RP348NK	请联系供应商以便为 Moplen RP348NK 查找分销商
TotalEnergies Polypropylene Lumicene® MR 10MX0	<p>RESINEX Group <i>RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.</i> 电话: +32-14-672511 Web: http://www.resinex.com/ 供货地区: Czech Republic, Hungary, Slovakia</p> <p>TER HELL Plastic GmbH <i>TER HELL Plastic is a Pan European distribution company. Contact TER HELL Plastic for availability of individual products by country.</i> 电话: +49-2366-5661-0 Web: https://www.terplastics.com/ 供货地区: France, Germany, Poland, Spain</p>

