

Technical Data	
产品说明	
Tritan™ MX731	Eastman Tritan™ Copolyester MX731 is an amorphous product with excellent appearance and clarity. Eastman Tritan™ Copolyester MX731 is a high flow medical grade of Eastman Tritan™ that has viscosity reductions of 40-50% relative to Eastman Tritan™ Copolyester MX711. Eastman Tritan™ Copolyester MX731 contains a mold release derived from vegetable based sources. Eastman Tritan™ Copolyester MX731 has many outstanding features that include excellent toughness, hydrolytic stability, heat resistance, chemical resistance, and melt flowability. Eastman Tritan™ Copolyester MX731 has been formulated for medical devices. Eastman Tritan™ Copolyester MX731 has been tested for FDA/ISO 10993 and USP Class VI Biological Evaluation testing after Gamma and ETO sterilization.
ECOZEN® T110	ECOZEN, conceived and developed by SK Chemicals is a bio-based, heat-resistant, and transparent bio-copolyester. Available in 5 distinct product lines, each containing all the advantages of conventional PETG resins, like high transparency, easy-processing, and chemical resistance. ECOZEN also has increased heat resistance, while using eco-friendly materials. Key Attributes • High flowability • High HDT Applications • Cosmetic • Home appliance • Sheet & others
ECOZEN® T120	ECOZEN, conceived and developed by SK Chemicals is a bio-based, heat-resistant, and transparent bio-copolyester. Available in 5 distinct product lines, each containing all the advantages of conventional PETG resins, like high transparency, easy-processing, and chemical resistance. ECOZEN also has increased heat resistance, while using eco-friendly materials. Key Attributes • High flowability • High HDT Applications • Cosmetic • Home appliance • Sheet & others
SKYGREEN® S2008	SKYGREEN is a BPA free high-performance PETG with exceptional transparency, chemical resistance, and processability. Available in 4 unique grades, SKYGREEN's outstanding features make it an ideal choice for a variety of applications. S SERIES SKYGREEN S caters to customers looking for varied grades of transparency, with a deeper and more luxurious appearance. With all the quality and reliability of SKYGREEN, the beauty of SKYGREEN S adds distinction to many applications. Key Attributes • Transparency



- Processability
- Safety

Applications

- Medical
- Childcare
- Home appliance
- Sheet
- Cosmetic
- Construction
- Food
- Drink

SKYGREEN is a BPA free high-performance PETG with exceptional transparency, chemical resistance, and processability. Available in 4 unique grades, SKYGREEN's outstanding features make it an ideal choice for a variety of applications

K SERIES

SKYGREEN K has long been known for its reliability as a transparent plastic. Its outstanding transparency and easy processability make it the top choice for many applications.

Key Attributes

- Transparency
- Processability
- Good overall toughness
- BPA free composition

SKYGREEN®
K2012

Applications

- Sheet
- Cosmetic
- Construction
- Food
- Drink
- Deco Film

总览	Tritan™ MX731	ECOZEN® T110	ECOZEN® T120	SKYGREEN® S2008	SKYGREEN® K2012
生产商/供应商	• Eastman Chemical Company	• SK Chemicals	• SK Chemicals	• SK Chemicals	• SK Chemicals
通用符号	• 共聚多酯	• Copolyester, Bio-based	• Copolyester, Bio-based	• PETG	• PETG
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



总览	Tritan™ MX731	ECOZEN® T110	ECOZEN® T120	SKYGREEN® S2008	SKYGREEN® K2012
资料 ¹	Technical Datasheet (English)	Technical Datasheet (English)	Technical Datasheet (English)	- Processing - Extrusion (English) - Processing - Extrusion Blow Molding (English) - Processing - Injection Molding (English) - Technical Datasheet (English)	- Processing - Extrusion (English) - Processing - Extrusion Blow Molding (English) - Processing - Injection Molding (English) - Technical Datasheet (English)
UL 黄卡 ²	E118289-101674517	E215991-101039968	E215991-101184817	--	E215991-229326
搜索 UL 黄卡	- Eastman Chemical Company - Tritan™	SK Chemicals	SK Chemicals	SK Chemicals	SK Chemicals
供货地区	- 北美洲 - 非洲和中东 - 拉丁美洲 - 欧洲 - 亚太地区	- 北美洲 - 欧洲 - 亚太地区	- 北美洲 - 欧洲 - 亚太地区	- 北美洲 - 欧洲 - 亚太地区	- 北美洲 - 欧洲 - 亚太地区
添加剂	脱模	--	--	--	--
特性	- 辐射消毒 - 环氧乙烷消毒 - 快的成型周期 - 良好的加工性能 - 良好的颜色稳定性 - 流动性高 - 耐化学品性能，良好 - 耐热性，高 - 清晰度，高 - 韧性良好 - 水解稳定 - 无定形的	- Good Heat Resistance - 可更新资源 - 良好的加工性能 - 流动性高 - 耐化学品性能，良好 - 清晰度，高	- Good Heat Resistance - 可更新资源 - 良好的加工性能 - 流动性高 - 耐化学品性能，良好 - 清晰度，高	- 耐化学品性能，良好 - 清晰度，高 - 无 BPA - 优良外观 - 优异的加工性能	- 良好的加工性能 - 耐化学品性能，良好 - 清晰度，高 - 韧性良好 - 无 BPA
用途	- 医疗/护理用品 - 医疗器械	- 电器用具 - 化妆品 - 片材	- 电器用具 - 化妆品 - 片材	- 电器用具 - 非特定食品应用 - 化妆品 - 建筑应用领域 - 片材 - 医疗/护理用品	- 薄膜 - 非特定食品应用 - 化妆品 - 建筑应用领域 - 片材
机构评级	- FDA 未评级 - ISO 10993 - USP 第 VI 类	--	--	--	--
外观	--	清晰/透明	清晰/透明	清晰/透明	清晰/透明
加工方法	--	挤出	挤出	--	--



物理性能	Tritan™ MX731	ECOZEN® T110	ECOZEN® T120	SKYGREEN® S2008	SKYGREEN® K2012	单位制	测试方法
密度 / 比重	1.18	1.27	1.27	1.27	1.27	g/cm³	ASTM D792
收缩率 - 流动	0.50 到 0.70	0.20 到 0.50	0.20 到 0.50	0.30 到 0.60	0.20 到 0.50	%	ASTM D955
机械性能	Tritan™ MX731	ECOZEN® T110	ECOZEN® T120	SKYGREEN® S2008	SKYGREEN® K2012	单位制	测试方法
拉伸模量							
23°C	1580	--	--	--	--	MPa	ASTM D638
23°C	1600	--	--	--	--	MPa	ISO 527-2
抗张强度							
屈服	--	51.0	53.0	44.6	44.6	MPa	ASTM D638
屈服, 23°C	43.0	--	--	--	--	MPa	ASTM D638
屈服	--	49.0	51.0	49.0	49.0	MPa	ISO 527-2
屈服, 23°C	44.0	--	--	--	--	MPa	ISO 527-2
断裂	--	53.0	54.4	40.2	29.4	MPa	ASTM D638
断裂, 23°C	52.0	--	--	--	--	MPa	ASTM D638
断裂	--	48.0	50.0	30.0	30.0	MPa	ISO 527-2
断裂, 23°C	49.0	--	--	--	--	MPa	ISO 527-2
伸长率							
屈服	--	6.8	7.1	5.0	4.5	%	ASTM D638
屈服, 23°C	7.0	--	--	--	--	%	ASTM D638 ISO 527-2
屈服	--	5.7	6.3	4.1	4.1	%	ISO 527-2
断裂	--	200	160	250	250	%	ASTM D638
断裂, 23°C	210	--	--	--	--	%	ASTM D638
断裂	--	150	130	240	240	%	ISO 527-2
断裂, 23°C	150	--	--	--	--	%	ISO 527-2
弯曲模量							
--	--	1910	1910	1810	2160	MPa	ASTM D790
23°C	1580	--	--	--	--	MPa	ASTM D790
--	--	1800	1800	1920	1800	MPa	ISO 178
23°C	1500	--	--	--	--	MPa	ISO 178
弯曲强度							
--	--	80.4	85.3	69.1	74.0	MPa	ASTM D790
--	--	73.0	76.0	67.0	64.0	MPa	ISO 178
23°C	60.0	--	--	--	--	MPa	ISO 178
屈服, 23°C	64.0	--	--	--	--	MPa	ASTM D790



冲击性能	Tritan™ MX731	ECOZEN® T110	ECOZEN® T120	SKYGREEN® S2008	SKYGREEN® K2012	单位制	测试方法
悬壁梁缺口冲击强度							
23°C	860	860	860	100	110	J/m	ASTM D256
-40°C	11	--	--	--	--	kJ/m²	ISO 180
23°C	83	93	93	8.8	7.3	kJ/m²	ISO 180
无缺口悬臂梁冲击 (23°C)	无断裂	--	--	--	--		ASTM D4812
硬度	Tritan™ MX731	ECOZEN® T110	ECOZEN® T120	SKYGREEN® S2008	SKYGREEN® K2012	单位制	测试方法
洛氏硬度							ASTM D785
R 级	--	119	121	110	108		
R 级, 23°C	111	--	--	--	--		
热性能	Tritan™ MX731	ECOZEN® T110	ECOZEN® T120	SKYGREEN® S2008	SKYGREEN® K2012	单位制	测试方法
载荷下热变形温度							
0.45 MPa, 未退火	94.0	99.0	109	70.0	70.0	°C	ASTM D648
0.45 MPa, 未退火	--	97.0	110	73.0	72.0	°C	ISO 75-2/B
1.8 MPa, 未退火	80.0	85.0	92.0	62.0	62.0	°C	ASTM D648
1.8 MPa, 未退火	--	81.0	94.0	64.0	62.0	°C	ISO 75-2/A
光学性能	Tritan™ MX731	ECOZEN® T110	ECOZEN® T120	SKYGREEN® S2008	SKYGREEN® K2012	单位制	测试方法
透射率							ASTM D1003
--	--	86.0	81.0	90.0	90.0	%	
总计	91.0	--	--	--	--	%	
雾度	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	%	ASTM D1003
注射	Tritan™ MX731	ECOZEN® T110	ECOZEN® T120	SKYGREEN® S2008	SKYGREEN® K2012	单位制	
干燥温度	88	--	--	--	--	°C	
干燥时间	4.0 到 6.0	--	--	--	--	hr	
加工 (熔体) 温度	260 到 282	--	--	--	--	°C	
模具温度	38 到 66	--	--	--	--	°C	

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	
Tritan™ MX731	Eastman Chemical Company Kingsport, TN USA 电话: 800-327-8626 Web: http://www.eastman.com/
ECOZEN® T110	SK Chemicals 电话: +82-2-2008-2292 (South East Asia); +1-949-336-8088 (USA); +49-6196-902-0612 (Germany) Web: http://www.skchemicals.com/
ECOZEN® T120	SK Chemicals 电话: +82-2-2008-2292 (South East Asia); +1-949-336-8088 (USA); +49-6196-902-0612 (Germany) Web: http://www.skchemicals.com/
SKYGREEN® S2008	SK Chemicals 电话: +82-2-2008-2292 (South East Asia); +1-949-336-8088 (USA); +49-6196-902-0612 (Germany) Web: http://www.skchemicals.com/
SKYGREEN® K2012	SK Chemicals 电话: +82-2-2008-2292 (South East Asia); +1-949-336-8088 (USA); +49-6196-902-0612 (Germany) Web: http://www.skchemicals.com/



分销商

Tritan™ MX731

ALBIS Plastic*ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.***电话:** +49-40-78105-0**Web:** <http://www.albis.com/>**供货地区:** Algeria, Austria, Belgium, Czech Republic, Denmark, Estonia, Finland, Germany, Ireland, Latvia, Lithuania, Luxembourg, Morocco, Netherlands, Norway, Russian Federation, Slovakia, Slovenia, Sweden, Tunisia, United Kingdom**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**CCC Plastics****电话:** 800-465-6917**Web:** <https://www.ccc-group.com/>**供货地区:** Canada, 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.***电话:** 833-446-3936**Web:** <https://www.nexeoplastics.com/>**供货地区:** North America

ECOZEN® T110

Biesterfeld*Biesterfeld is a Pan European distribution company. Contact Biesterfeld for availability of individual products by country.***电话:** +49-40-32008-0**Web:** <http://www.biesterfeld-plastic.com/>**供货地区:** Algeria, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Egypt, Faroe Islands, Finland, France, Greece, Hungary, Iceland, Ireland, Libyan Arab Jamahiriya, Luxembourg, Mauritania, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tunisia, Turkey, United Kingdom**Chase Plastic Services, Inc.***Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here: <http://www.chaseplastics.com/contact/locations>***电话:** 800-232-4273**Web:** <http://www.chaseplastics.com/>**供货地区:** North America

	ResMart 电话: 844-738-8806 Web: http://www.resmart.com 供货地区: North America
ECOZEN® T120	Chase Plastic Services, Inc. <i>Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here: http://www.chaseplastics.com/contact/locations</i> 电话: 800-232-4273 Web: http://www.chaseplastics.com/ 供货地区: North America ResMart 电话: 844-738-8806 Web: http://www.resmart.com 供货地区: North America
SKYGREEN® S2008	Biesterfeld <i>Biesterfeld is a Pan European distribution company. Contact Biesterfeld for availability of individual products by country.</i> 电话: +49-40-32008-0 Web: http://www.biesterfeld-plastic.com/ 供货地区: Algeria, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Egypt, Faroe Islands, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Libyan Arab Jamahiriya, Luxembourg, Mauritania, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tunisia, Turkey, United Kingdom Chase Plastic Services, Inc. <i>Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here: http://www.chaseplastics.com/contact/locations</i> 电话: 800-232-4273 Web: http://www.chaseplastics.com/ 供货地区: North America ResMart 电话: 844-738-8806 Web: http://www.resmart.com 供货地区: North America
SKYGREEN® K2012	ResMart 电话: 844-738-8806 Web: http://www.resmart.com 供货地区: North America

