

Technical Data

Product Description		
Eastar™ MN211, Natural	Meets ISO 10993 and/or USP Class VI biocompatibility requirement. Eastar™ Copolyester MN211, Natural contains a mold release for improved ejection. It is a brilliantly clear polymer with good impact strength, chemical resistance, dimensional stability, and low shrinkage rates. The slower rate of crystallization of this material makes it excellent for use in hot runner systems with valve or thermal gates.	
	This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED The GREENGUARD INDOOR AIR QUALITY CERTIFIED Mark is a registered certification mark used under license through the GREENGUARD Environmental Institute (GEI). GEI is an industry-independent, non-profit organization that oversees the GREENGUARD Certification Program. The GREENGUARD Certification Program is an industry independent, third-party testing program for low-emitting products and materials for indoor environments. For more information about GEI and to obtain printable certificates for Eastman™ Copolyesters, visit www.greenguard.org . Choose Eastman Chemical Company under the Manufacturer category and click search to display a list of our products.	
SKYGREEN® PN100	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	
	PN SERIES SKYGREEN PN has high flowability, ideally suited for detailed and varied designs, smaller products, or injection with thin gates.	
	Key Attributes • Transparency • High flowability • Processability	
	Applications • Medical • Childcare • Homeappliance • Sheet • Cosmetic • Construction • Food • Drink	
General	Eastar™ MN211, Natural	SKYGREEN® PN100
Manufacturer / Supplier	• Eastman Chemical Company	• SK Chemicals
Generic Symbol	• 共聚多酯	• PETG
Material Status	• 已商用：当前有效	• 已商用：当前有效
资料 ¹	• Technical Datasheet (English)	• Processing - Extrusion (English) • Processing - Extrusion Blow Molding (English) • Processing - Injection Molding (English) • Technical Datasheet (English)
搜索 UL 黄卡	• Eastman Chemical Company • Eastar™	• SK Chemicals
Availability	• 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
Additive	• 脱模	--



General	Eastar™ MN211, Natural	SKYGREEN® PN100
Features	- 尺寸稳定性良好 - 电子束消毒 - 辐射消毒 - 良好的颜色稳定性 - 良好抗撞击性 - 耐化学品性能，良好 - 清晰度，高 - 收缩性低 - 脱模性能良好	- 良好的加工性能 - 流动性高 - 耐化学品性能，良好 - 清晰度，高 - 无 BPA
Uses	医疗/护理用品	- 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
Appearance	自然色	清晰/透明
Forms	粒子	粒子
Processing Method	注射成型	- 挤出 - 注射成型

Physical	Eastar™ MN211, Natural	SKYGREEN® PN100	单位制	测试方法
Density / Specific Gravity	1.27	1.27	g/cm³	ASTM D792
Molding Shrinkage - 流动				ASTM D955
--	--	0.20 到 0.50	%	
3.20 mm	0.20 到 0.50	--	%	
Water Absorption (24 hr, 23°C)	0.13	--	%	ASTM D570
Mechanical	Eastar™ MN211, Natural	SKYGREEN® PN100	单位制	测试方法
Tensile Strength				
屈服	--	46.1	MPa	ASTM D638
屈服, 23°C	50.0	--	MPa	ASTM D638
屈服	--	49.0	MPa	ISO 527-2
断裂	--	46.1	MPa	ASTM D638
断裂, 23°C	28.0	--	MPa	ASTM D638
断裂	--	23.0	MPa	ISO 527-2
Tensile Elongation				
屈服	--	4.5	%	ASTM D638
屈服, 23°C	4.3	--	%	ASTM D638
屈服	--	4.1	%	ISO 527-2
断裂	--	120	%	ASTM D638
断裂, 23°C	110	--	%	ASTM D638
断裂	--	40	%	ISO 527-2
Flexural Modulus				
--	--	1890	MPa	ASTM D790 ISO 178
23°C	2100	--	MPa	ASTM D790
Flexural Strength				
--	--	70.6	MPa	ASTM D790
23°C	70.0	--	MPa	ASTM D790
--	--	67.0	MPa	ISO 178



Impact	Eastar™ MN211, Natural	SKYGREEN® PN100	单位制	测试方法
Notched Izod Impact				
-40°C	37	--	J/m	ASTM D256
23°C	100	110	J/m	ASTM D256
23°C	--	7.0	kJ/m²	ISO 180
Unnotched Izod Impact				ASTM D4218
-40°C	无断裂	--		
23°C	无断裂	--		
Hardness	Eastar™ MN211, Natural	SKYGREEN® PN100	单位制	测试方法
Rockwell Hardness				ASTM D785
R 级, 23°C	106	--		
R 级	--	105		
Thermal	Eastar™ MN211, Natural	SKYGREEN® PN100	单位制	测试方法
Deflection Temperature Under Load				
0.45 MPa, 未退火	70.0	70.0	°C	ASTM D648
0.45 MPa, 未退火	--	72.0	°C	ISO 75-2/B
1.8 MPa, 未退火	63.0	62.0	°C	ASTM D648
1.8 MPa, 未退火	--	62.0	°C	ISO 75-2/A
Vicat Softening Temperature	85.0	--	°C	ASTM D1525
Specific Heat				ASTM D2766
60°C	1300	--	J/kg/°C	
240°C	2010	--	J/kg/°C	
Thermal Conductivity (23°C)	0.19	--	W/m/K	No Standard
Optical	Eastar™ MN211, Natural	SKYGREEN® PN100	单位制	测试方法
Transmittance				ASTM D1003
常规	88.0	--	%	
总计	91.0	--	%	
--	--	90.0	%	
Haze	0.300	< 1.00	%	ASTM D1003
Injection	Eastar™ MN211, Natural	SKYGREEN® PN100	单位制	
Drying Temperature	71	--	°C	
Drying Time	4.0 到 6.0	--	hr	
Processing (Melt) Temp	249 到 271	--	°C	
Mold Temperature	16 到 38	--	°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 一般属性：这些不能被视为规格。



购买地点

供应商	
Eastar™ MN211, Natural	Eastman Chemical Company Kingsport, TN USA 电话: 800-327-8626 Web: http://www.eastman.com/
SKYGREEN® PN100	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	
Eastar™ MN211, Natural	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, 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 <i>Avient Distribution is a global distribution company. Contact Avient Distribution for availability of individual products by country.</i> 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 电话: 833-446-3936 Web: https://www.nexeoplastics.com/ 供货地区: North America
SKYGREEN® PN100	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
	ResMart 电话: 844-738-8806 Web: http://www.resmart.com 供货地区: North America

