

Eastar™ GN071, Natural

共聚多酯

Eastman Chemical Company

PROSPECTOR®

www.ulprospector.com

Technical Data

产品说明

Eastar™ GN071 Copolyester is used for injection molding applications. It is sparkling clear, tough, chemical resistant, odor free, versatile, easy to work with and affordable. Cleaning solutions will not turn Eastar™ GN071 white. This makes this product one of our most versatile materials for the cosmetics and personal care packaging market. Eastar™ GN071 Copolyester is certified to NSF/ANSI Standard 51 for Food Equipment Materials.

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.

This product has been CRADLE TO CRADLE CERTIFIED Silver.

The CRADLE TO CRADLE CERTIFIED Mark is a registered certification mark used under license through McDonough Braungart Design Chemistry (MBDC). MBDC is a global sustainability consulting and product certification firm. The CRADLE TO CRADLE framework moves beyond the traditional goal of reducing the negative impacts of commerce ('eco-efficiency'), to a new paradigm of increasing its positive impacts ('eco-effectiveness'). At its core, Cradle to Cradle design perceives the safe and productive processes of nature's 'biological metabolism' as a model for developing a 'technical metabolism' flow of industrial materials. Product components can be designed for continuous recovery and reutilization as biological and technical nutrients within these metabolisms. For more information about MBDC and to obtain printable certificates for Eastman Copolyesters, visit www.mbdc.com. Choose Eastman Chemical Company under Company Name in C2C Certified products to display a list of our products.

总体

材料状态	• 已商用：当前有效		
资料 ¹	• Technical Datasheet (English)		
UL 黄卡 ²	• E118289-267960 • E118289-267961		
搜索 UL 黄卡	• Eastman Chemical Company • Eastar™		
供货地区	• 北美洲 • 非洲和中东	• 拉丁美洲 • 欧洲	• 亚太地区
特性	• Odorless • 刚性，良好 • 高光 • 极佳的可印刷性	• 抗撞击性，良好 • 可加工性，良好 • 可清洁 • 良好的着色性	• 耐化学性良好 • 清晰度，高 • 韧性良好 • 阻隔树脂
用途	• 包装 • 包装，化妆品 • 个人护理	• 家具 • 家用货品 • 体育用品	• 玩具 • 文具 • 文具
机构评级	• NSF 51		
外观	• 自然色		
形式	• 粒子		
加工方法	• 挤出	• 注射成型	

物理性能	额定值 单位制	测试方法
密度 / 比重	1.27 g/cm³	ASTM D792
收缩率 - 流动 (3.20 mm)	0.20 到 0.50 %	ASTM D955
机械性能	额定值 单位制	测试方法
拉伸模量		
23°C	2030 MPa	ASTM D638
23°C	2000 MPa	ISO 527-2
抗张强度		
屈服, 23°C	50.0 MPa	ASTM D638
屈服, 23°C	48.0 MPa	ISO 527-2
断裂, 23°C	30.0 MPa	ASTM D638
断裂, 23°C	29.0 MPa	ISO 527-2



机械性能	额定值 单位制	测试方法
伸长率		
屈服, 23°C	4.4 %	ASTM D638
屈服, 23°C	4.0 %	ISO 527-2
断裂, 23°C	180 %	ASTM D638
断裂, 23°C	200 %	ISO 527-2
弯曲模量		
23°C	2060 MPa	ASTM D790
23°C	2100 MPa	ISO 178
弯曲强度		
23°C	68.0 MPa	ASTM D790
23°C	67.0 MPa	ISO 178
冲击性能	额定值 单位制	测试方法
悬壁梁缺口冲击强度		
-40°C	40 J/m	ASTM D256
23°C	110 J/m	ASTM D256
-40°C	4.4 kJ/m²	ISO 180
23°C	9.4 kJ/m²	ISO 180
无缺口悬臂梁冲击		ASTM D4218
-40°C	无断裂	
23°C	无断裂	
硬度	额定值 单位制	测试方法
洛氏硬度 (R 级, 23°C)	108	ASTM D785
热性能	额定值 单位制	测试方法
载荷下热变形温度		
0.45 MPa, 未退火	70.0 °C	ASTM D648 ISO 75-2/B
1.8 MPa, 未退火	62.0 °C	ASTM D648 ISO 75-2/A
光学性能	额定值 单位制	测试方法
透射率 (总计)	90.0 %	ASTM D1003
雾度	0.20 %	ASTM D1003
注射	额定值 单位制	
干燥温度	63 °C	
干燥时间	6.0 到 8.0 hr	
加工 (熔体) 温度	249 到 271 °C	
模具温度	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 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

Eastman Chemical Company

Kingsport, TN USA

电话: 800-327-8626

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

分销商

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, Germany, Ireland, 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

CCC Plastics

电话: 800-465-6917

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

供货地区: Canada, United States

Nexeo Solutions

电话: 800-531-7106

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

供货地区: North America

PolyOne Distribution

PolyOne Distribution is a global distribution company. Contact PolyOne Distribution for availability of individual products by country.

电话: 800-894-4266

Web: <http://polyonedistribution.com/>

供货地区: Global

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: Europe