

Technical Data

产品说明

Eastar™ Copolyester DN011 is a brilliantly clear polymer having excellent impact strength, chemical resistance, and low shrinkage rates. Eastar™ Copolyester DN011 contains a mold release.

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(cm)

The CRADLE TO CRADLE CERTIFIED(cm) 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 <http://www.mbdc.com>.

总览

材料状态	• 已商用：当前有效		
资料 ¹	• Technical Datasheet (English)		
UL 黄卡 ²	• E118289-552708		
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
添加剂	• 脱模		
特性	• 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
用途	• 包装，化妆品 • 地板保养/维修 • 个人护理	• 护罩 • 化妆品 • 家电部件	• 容器 • 显示器，装饰
形式	• 粒子		
加工方法	• 注射成型		

物理性能	额定值 单位制	测试方法
密度 / 比重	1.23 g/cm³	ASTM D792
收缩率 - 流动	0.40 %	ASTM D955
机械性能	额定值 单位制	测试方法
拉伸模量 (23°C)	1800 MPa	ASTM D638
抗张强度		ASTM D638
屈服, 23°C	44.0 MPa	
断裂, 23°C	54.0 MPa	
伸长率		ASTM D638
屈服, 23°C	4.0 %	
断裂, 23°C	330 %	
弯曲模量 (23°C)	1800 MPa	ASTM D790
弯曲强度 (23°C)	66.0 MPa	ASTM D790



冲击性能	额定值 单位制	测试方法
悬壁梁缺口冲击强度		ASTM D256
-40°C	77 J/m	
23°C	无断裂	
无缺口悬臂梁冲击		ASTM D4218
-40°C	无断裂	
23°C	无断裂	
装有测量仪表的落镖冲击		ASTM D3763
-40°C, Energy at Peak Load	46.0 J	
23°C, Energy at Peak Load	46.0 J	
硬度	额定值 单位制	测试方法
洛氏硬度 (R 级, 23°C)	105	ASTM D785
热性能	额定值 单位制	测试方法
载荷下热变形温度		ASTM D648
0.45 MPa, 未退火	73.0 °C	
1.8 MPa, 未退火	64.0 °C	
光学性能	额定值 单位制	测试方法
透射率		ASTM D1003
常规	89.0 %	
总计	92.0 %	
雾度	< 1.00 %	ASTM D1003
注射	额定值 单位制	
干燥温度	71 °C	
干燥时间	6.0 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, 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

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

PolyOne Distribution

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

电话: 440-930-3004

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

供货地区: Global