

# Eastar™ DN011

共聚多酯

Eastman Chemical Company

## 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](http://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>.

基本信息				
UL 黄卡	E118289-552708			
添加剂	脱模			
特性	抗撞击性,良好 脱模性能良好	耐化学性良好	清晰度,高	收缩性低
用途	Cosmetic Packaging 护罩	Decorative Displays 化妆品	地板保养/维修 家电部件	个人护理 容器
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	
比重	1.23	g/cm <sup>3</sup>	ASTM D792	
收缩率 - 流动	0.40	%	ASTM D955	
硬度	额定值	单位制	测试方法	
洛氏硬度 (R 级, 23°C)	105		ASTM D785	
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	ASTM D638	
断裂, 23°C	54.0	MPa	ASTM D638	
伸长率			ASTM D638	
屈服, 23°C	4.0	%	ASTM D638	
断裂, 23°C	330	%	ASTM D638	
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	
悬臂梁缺口冲击强度			ASTM D256	
-40°C	77	J/m	ASTM D256	
23°C	无断裂		ASTM D256	
无缺口悬臂梁冲击			ASTM D4218	
-40°C	无断裂		ASTM D4218	
23°C	无断裂		ASTM D4218	
装有测量仪表的落镖冲击			ASTM D3763	
-40°C, Energy at Peak Load	46.0	J	ASTM D3763	
23°C, Energy at Peak Load	46.0	J	ASTM D3763	
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	ASTM D648	
1.8 MPa, 未退火	64.0	°C	ASTM D648	
光学性能	额定值	单位制	测试方法	

透射率			ASTM D1003
总计	92.0	%	ASTM D1003
常规	89.0	%	ASTM D1003
雾度	< 1.0	%	ASTM D1003
<b>注射</b>	<b>额定值</b>	<b>单位制</b>	
干燥温度	71.0	°C	
干燥时间	6.0	hr	
加工(熔体)温度	249 到 271	°C	
模具温度	16.0 到 38.0	°C	