

Eastar™ MN211, Natural

共聚多酯

Eastman Chemical Company

Technical Data

Product Description

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.

General

Material Status	• 已商用：当前有效		
资料 ¹	•		
搜索 UL 黄卡	•		
Availability	• 北美洲 • 非洲和中东	• 拉丁美洲 • 欧洲	• 亚太地区
Additive	• 脱模		
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
Uses	• 医疗/护理用品		
Appearance	• 自然色		
Forms	• 粒子		
Processing Method	• 注射成型		

Physical

	额定值 单位制	测试方法
Density / Specific Gravity	1.27 g/cm³	ASTM D792
Molding Shrinkage - 流动 (3.20 mm)	0.20 到 0.50 %	ASTM D955
Water Absorption (24 hr, 23°C)	0.13 %	ASTM D570

Mechanical

	额定值 单位制	测试方法
Tensile Strength		ASTM D638
屈服, 23°C	50.0 MPa	
断裂, 23°C	28.0 MPa	
Tensile Elongation		ASTM D638
屈服, 23°C	4.3 %	
断裂, 23°C	110 %	
Flexural Modulus (23°C)	2100 MPa	ASTM D790
Flexural Strength (23°C)	70.0 MPa	ASTM D790

Impact

	额定值 单位制	测试方法
Notched Izod Impact		ASTM D256
-40°C	37 J/m	
23°C	100 J/m	
Unnotched Izod Impact		ASTM D4218
-40°C	无断裂	
23°C	无断裂	

Hardness

	额定值 单位制	测试方法
Rockwell Hardness (R 级, 23°C)	106	ASTM D785

Thermal	额定值 单位制	测试方法
Deflection Temperature Under Load		ASTM D648
0.45 MPa, 未退火	70.0 °C	
1.8 MPa, 未退火	63.0 °C	
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	额定值 单位制	测试方法
Transmittance		ASTM D1003
常规	88.0 %	
总计	91.0 %	
Haze	0.300 %	ASTM D1003
Injection	额定值 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。