

Eastar AN004, Natural

共聚多酯

Eastman Chemical Company

产品说明

Eastar AN004 Copolyester contains a mold release. It has excellent appearance and is nearly water-clear. Its most outstanding features are its chemical resistance and processing capabilities. Exposure to aromatic oils often causes crazing or actual fracture of many polymer resins, but AN004 maintains its physical properties when exposed to these oils, and its appearance is virtually unchanged. Easy to process, it flows readily and fills intricate molds. Its processability coupled with its outstanding chemical resistance makes it well suited for thick-wall applications.

This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.

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总体

材料状态	• 已商用：当前有效		
供货地区	• 北美洲 • 非洲和中东	• 拉丁美洲 • 南美洲	• 欧洲 • 亚太地区
添加剂	• 脱模		
性能特点	• 刚性，良好 • 光泽，高 • 抗撞击性，良好 • 可加工性，良好	• 良好的流动性 • 良好的着色性 • 耐化学性良好 • 清晰度，高	• 韧性良好 • 脱模性能良好 • 阻隔树脂
用途	• Cosmetic Packaging • 包装	• 个人护理 • 厚壁配件	• 护罩 • 瓶子
外观	• 自然色		
形式	• 颗粒料		
加工方法	• 注射成型		

物理性能	额定值	单位制	测试方法
比重	1.20	g/cm ³	ASTM D792
收缩率 - 流动 (3.20 mm)	0.20 到 0.60	%	ASTM D955
机械性能	额定值	单位制	测试方法
拉伸模量	1800	MPa	ISO 527-2
抗张强度			
屈服	47.0	MPa	ASTM D638 ISO 527-2
断裂	51.0	MPa	ASTM D638
断裂	46.0	MPa	ISO 527-2
伸长率			
屈服	5.0	%	ASTM D638
屈服	4.0	%	ISO 527-2
断裂	320	%	ASTM D638
断裂	200	%	ISO 527-2
弯曲模量			
--	2000	MPa	ASTM D790
--	1850	MPa	ISO 178
弯曲强度			
--	65.0	MPa	ISO 178
屈服	69.0	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		
-40°C	40 J/m	ASTM D256
23°C	80 J/m	ASTM D256
-40°C	4.8 kJ/m ²	ISO 180
23°C	7.8 kJ/m ²	ISO 180
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	48.0 J	
23°C, Energy at Peak Load	42.0 J	
硬度	额定值 单位制	测试方法
洛氏硬度 (R 计秤)	103	ASTM D785
热性能	额定值 单位制	测试方法
热变形温度		ASTM D648
0.45 MPa, 未退火	73.0 °C	
1.8 MPa, 未退火	65.0 °C	
光学性能	额定值 单位制	测试方法
透射率		ASTM D1003
总计	91.0 %	
常规	89.0 %	
雾度	0.30 %	ASTM D1003
注射	额定值 单位制	
干燥温度	70.0 °C	
干燥时间	3.0 hr	
加工 (熔体) 温度	230 到 280 °C	
模具温度	15.0 到 30.0 °C	

备注

¹ 一般属性：这些不能被视为规格。