Bormed™ HG820MO

聚丙烯均聚物

Borealis AG

Technical Data

产品说明

Bormed HG820MO is a resin intended for evaluation for use in Healthcare applications.

Bormed HG820MO is a clarified homopolymer and typically used in injection moulding. Additivation has been optimized to provide good demoulding properties. This polymer is a CR (controlled rheology) grade with narrow molecular weight distribution giving low risk of warpage. Bormed HG820MO can be sterilised with ethylene oxide or steam.

Applications

Bormed HG820MO has been evaluated according to different regulations and norms. Typical applications are mentioned below for Medical devices or Pharmaceutical & Diagnostic packaging. However, Borealis should be consulted for final approval to evaluate the use of Bormed HG820MO .

- Disposable non pre-filled syringes
- Laboratory disposable

This grade may only be used for the applications listed in the Product Datasheet and only to the extent that the application is within the scope of the tests set out in the Statement on Compliance to Regulations on Medical Use for that grade. If an application is not listed in the Product Datasheet, the grade can be used for such application only after express written consent of the Borealis Marketing Manager, Healthcare. Borealis prohibits the use of any healthcare grade product in an implantable device that is introduced into the human body by surgical intervention and that is intended to remain in place following surgical procedure.

Special Features

- Easy processing
- Good transparency

总览

添加剂	• 脱模		
特性	• 低翘曲性 • 环氧乙烷消毒 • 均聚物	• 可回收材料 • 可控流变 • 用蒸汽消毒	• 窄分子量分布
用途	• 实验室器具	• 医疗/护理用品	
加工方法	• 注射成型		

物理性能	额定值 单位制	测试方法
密度	0.905 g/cm³	ISO 1183
熔流率（熔体流动速率）(230°C/2.16 kg)	28 g/10 min	ISO 1133
收缩率	1.0 到 2.0 %	
机械性能	**额定值 单位制**	**测试方法**
拉伸模量 (50.0 mm)	1900 MPa	ISO 527-1
拉伸应力 (屈服)	40.0 MPa	ISO 527-2/50
拉伸应变 (屈服)	7.0 %	ISO 527-2/50
弯曲模量 [3]	1800 MPa	ISO 178
冲击性能	**额定值 单位制**	**测试方法**
简支梁缺口冲击强度 (23°C)	2.0 kJ/m²	ISO 179/1eA
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)	100 °C	ISO 75-2/Bf

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注射	额定值 单位制
加工（熔体）温度	210 到 260 °C
模具温度	30 到 40 °C
注射速度	中等偏快
保压	20.0 到 50.0 MPa