

Daplen™ EG203AE

聚丙烯

Borealis AG

Technical Data

产品说明

Daplen EG203AE is a 20% mineral and elastomer modified polypropylene compound intended for injection moulding.

Daplen EG203AE is a material with excellent impact / stiffness ratio. Thanks to its outstanding low thermal expansion this material is suitable to mould parts requiring a low change of dimensions over a broad temperature range with excellent surface aesthetics.

Daplen EG203AE is optimised to give high quality parts with the best production efficiency in combination with a broad processing window. To achieve a sufficient level of adhesion for painting or gluing, the use of flaming or other pre-treatment is necessary.

Automotive exterior applications:

- rocker panels
- exterior trims

总体

| | | | |
|---------|-------------------|----------|----------|
| 填料/增强材料 | • 矿物填料, 20% 填料按重量 | | |
| 性能特点 | • 刚性, 良好 | • 可回收材料 | |
| | • 抗撞击性, 良好 | • 适于粉刷 | |
| 用途 | • 汽车领域的应用: | • 汽车外部零件 | • 汽车外部装饰 |
| 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 |
|-------------------------|----------|-------------------|--------------|
| 密度 | 1.04 | g/cm ³ | ISO 1183 |
| 熔流率 (230°C/2.16 kg) | 25 | g/10 min | ISO 1133 |
| 收缩率 | | | ISO 294-4 |
| -- | 0.60 | % | |
| 90°C, 2小时 | 0.10 | % | |
| 机械性能 | 额定值 | 单位制 | 测试方法 |
| 拉伸应力 (屈服, 注塑) | 15.0 | MPa | ISO 527-2/50 |
| 弯曲模量 ² (注塑) | 1250 | 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 | | | ISO 179/1eA |
| -20°C | 5.0 | kJ/m ² | |
| 23°C | 35 | kJ/m ² | |
| 简支梁缺口冲击强度 (23°C) | 无断裂 | | ISO 179/1eU |
| 悬臂梁缺口冲击强度 | | | ISO 180/1A |
| -20°C | 4.5 | kJ/m ² | |
| 23°C | 32 | kJ/m ² | |
| 热性能 | 额定值 | 单位制 | 测试方法 |
| 热变形温度 (0.45 MPa, 未退火) | 105 | °C | ISO 75-2/B |
| 线形膨胀系数 - 流动 (23 到 80°C) | 0.000050 | cm/cm/°C | ISO 11359-2 |

补充信息

The values listed as Molding Shrinkage, ISO 294-4, were tested in accordance with Borealis test methods.
The value listed as CLTE, 11359-1, -2, was tested in accordance with DIN 53752.

| 注射 | 额定值 | 单位制 |
|------------|-------------|-----|
| 干燥温度 | 80.0 | °C |
| 干燥时间 | 2.0 | hr |
| 加工 (熔体) 温度 | 220 到 260 | °C |
| 模具温度 | 30.0 到 50.0 | °C |
| 注射速度 | 中等偏慢 | |

注射说明

Screw Speed: slow to medium
Holding Pressure: 50 to 70% of the injection pressure