

# Purell PE 3020 D

## 低密度聚乙烯

### LyondellBasell Industries

#### 产品说明

Purell PE 3020 D is a low density polyethylene with high rigidity, good opticals and good chemical resistance. It is delivered in pellet form. Target markets are small blow mouldings including packaging of pharmaceuticals and injection moulding for medical devices, closures and seals.

Without exception, all potential activities for applications in the pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with the relevant Technical (P & AD) and Business contacts first.

To discuss a medical/pharmaceutical application please contact: your local Distributor or your local Basell contact.

#### 总体

|      |                                                                              |                                                                          |                                                                                  |
|------|------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 性能特点 | <ul style="list-style-type: none"><li>刚性，高</li><li>光学性能</li></ul>            | <ul style="list-style-type: none"><li>可用环氧乙烷消毒</li><li>耐化学性良好</li></ul>  |                                                                                  |
| 用途   | <ul style="list-style-type: none"><li>薄膜</li><li>吹塑成型应用</li><li>护罩</li></ul> | <ul style="list-style-type: none"><li>密封</li><li>瓶子</li><li>外壳</li></ul> | <ul style="list-style-type: none"><li>小瓶</li><li>药物</li><li>医疗/护理领域的应用</li></ul> |
| 形式   | <ul style="list-style-type: none"><li>颗粒料</li></ul>                          |                                                                          |                                                                                  |
| 加工方法 | <ul style="list-style-type: none"><li>吹塑薄膜</li></ul>                         | <ul style="list-style-type: none"><li>挤出吹塑成型</li></ul>                   | <ul style="list-style-type: none"><li>注射成型</li></ul>                             |

| 物理性能                | 额定值 单位制                  | 测试方法                   |
|---------------------|--------------------------|------------------------|
| 密度                  | 0.927 g/cm <sup>3</sup>  | ISO 1183<br>ASTM D1505 |
| 表观密度                | > 0.50 g/cm <sup>3</sup> | ISO 60                 |
| 熔流率 (190°C/2.16 kg) | 0.30 g/10 min            | ASTM D1238<br>ISO 1133 |
| 抗环境应力开裂             | 16.0 hr                  | ASTM D1693             |

| 机械性能         | 额定值 单位制  | 测试方法      |
|--------------|----------|-----------|
| 拉伸模量         |          |           |
| 1% 正割        | 434 MPa  | ASTM D638 |
| 23°C         | 300 MPa  | ISO 527-2 |
| 抗张强度         |          |           |
| 屈服           | 15.2 MPa | ASTM D638 |
| 屈服, 23°C     | 13.0 MPa | ISO 527-2 |
| 断裂           | 15.2 MPa | ASTM D638 |
| 伸长率 (断裂)     | 700 %    | ASTM D638 |
| 弯曲模量 - 1% 正割 | 414 MPa  | ASTM D790 |

| 薄膜       | 额定值 单位制      |
|----------|--------------|
| 可供应的薄膜厚度 | 60 to 150 µm |

| 硬度          | 额定值 单位制 | 测试方法    |
|-------------|---------|---------|
| 支撑硬度 (邵氏 D) | 51      | ISO 868 |

| 热性能                   | 额定值 单位制 | 测试方法                      |
|-----------------------|---------|---------------------------|
| 热变形温度 (0.45 MPa, 未退火) | 46.0 °C | ASTM D648                 |
| 维卡软化温度                | 102 °C  | ASTM D1525<br>ISO 306/A50 |
| 熔融温度 ( DSC )          | 114 °C  | ISO 3146                  |

| 挤出   | 额定值 单位制      |
|------|--------------|
| 熔体温度 | 170 到 220 °C |

#### 备注

<sup>1</sup> 一般属性：这些不能被视为规格。