

# Rigidex® P 451-HP40

聚丙烯共聚物

INEOS Olefins & Polymers Europe

## Technical Data

### 产品说明

RIGIDEX® P 451-HP40 has been designed specifically for the ultra-fast injection moulding of large food and paint containers (5-20ltr) where the demands for high productivity with high product performance are paramount. RIGIDEX® P 451-HP40 is a very high melt flow, high impact and high stiffness block copolymer, that offers moulders an opportunity to significantly reduce cycle time, reduce wall thickness and increase product performance in use.

### Benefits & Features

- Fast cycling (high MFR and nucleated)
- High impact
- High stiffness
- Antistatic
- FDA compliant
- Very good dimensional and thermal stability

### Applications

- Food and paint containers
- Technical closures
- Automotive and appliance components
- Housewares

### 总体

|          |   |                                |                                  |
|----------|---|--------------------------------|----------------------------------|
| 添加剂      | • 成核剂                                   | • 抗静电性                         |                                  |
| 特性       | • Block Copolymer<br>• 成核的<br>• 尺寸稳定性良好 | • 刚性, 高<br>• 抗静电性<br>• 抗撞击性, 高 | • 快的成型周期<br>• 流动性高<br>• 热稳定性, 良好 |
| 用途       | • 家电部件<br>• 家用货品                        | • 汽车领域的应用<br>• 容器              | • 食品容器<br>• 外壳                   |
| 机构评级     | • FDA 未评级                               |                                |                                  |
| RoHS 合规性 | • 联系制造商                                 |                                |                                  |
| 形式       | • 粒子                                    |                                |                                  |
| 加工方法     | • 注射成型                                  |                                |                                  |

| 物理性能                         | 额定值                   | 单位制 | 测试方法       |
|------------------------------|-----------------------|-----|------------|
| 熔流率 (熔体流动速率) (230°C/2.16 kg) | 40 g/10 min           |     | ISO 1133   |
| 机械性能                         | 额定值                   | 单位制 | 测试方法       |
| 弯曲模量 (23°C)                  | 1350 MPa              |     | ISO 178    |
| 冲击性能                         | 额定值                   | 单位制 | 测试方法       |
| 悬臂梁缺口冲击强度                    |                       |     | ISO 180/A  |
| -20°C                        | 4.5 kJ/m <sup>2</sup> |     |            |
| 23°C                         | 8.0 kJ/m <sup>2</sup> |     |            |
| 热性能                          | 额定值                   | 单位制 | 测试方法       |
| 热变形温度 (0.45 MPa, 未退火)        | 103 °C                |     | ISO 75-2/B |