

POM | KEPITAL F15-33 | 改善韧性

- 普通注塑成型的韧性改良 (中高粘度) 牌号
- 改良了成型周期的特性

| 基本信息 | 测试标准 | 单位 | 数值 |
|------|----------|----|-----|
| 聚合物 | ISO 1043 | - | POM |

| 物理性能 | 测试标准 | 单位 | 数值 |
|----------------------|----------------------|-------------------|------|
| 密度 | ISO 1183 (GB/T 1033) | g/cm ³ | 1.41 |
| 熔体质量流动速率 | ISO 1133 (GB/T 3682) | g/10min | 6 |
| 吸水率(23 °C / 50 % RH) | ISO 62 | % | 0.2 |

| 热性能 | 测试标准 | 单位 | 数值 |
|----------------|------------------------|-------------------------|-----|
| 1.8 MPa 负荷变形温度 | ISO 75 (GB/T 1634) | °C | 96 |
| 燃烧性 | UL94 | - | HB |
| 熔融温度 | ISO 11357 (GB/T 19466) | °C | 165 |
| 线膨胀系数 | ISO 11359 | X 10 ⁻⁵ / °C | 12 |

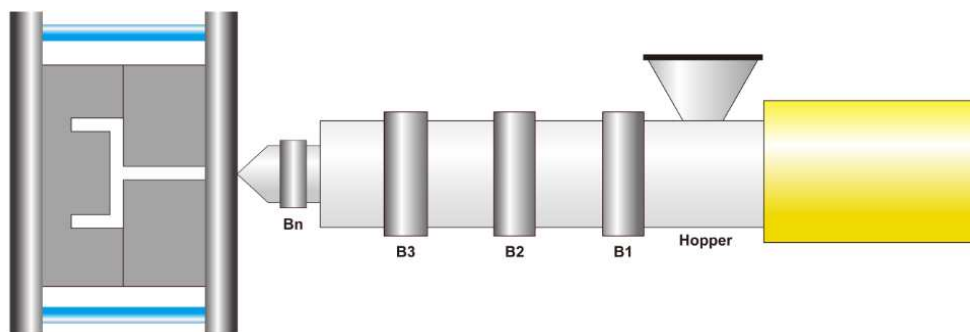
| 机械性能 | 测试标准 | 单位 | 数值 |
|---------------------|--------------------------------|-------------------|-------|
| 拉伸模量 | ISO 527 (GB/T 1040) | MPa | 2,600 |
| 屈服应力 | ISO 527 (GB/T 1040) | MPa | 65 |
| 屈服拉伸应变 | ISO 527 (GB/T 1040) | % | 10 |
| 断裂标称应变 | ISO 527 (GB/T 1040) | % | 35 |
| 弯曲强度 | ISO 178 (GB/T 9341) | MPa | 84 |
| 弯曲模量 | ISO 178 (GB/T 9341) | MPa | 2,450 |
| 简支梁缺口冲击强度 (23°C) | ISO 179/1eA (GB/T 1043/1eA) | kJ/m ² | 7.0 |
| 简支梁缺口冲击强度 (-30°C) | ISO 179/1eA (GB/T 1043/1eA) | kJ/m ² | 6.0 |

| 电性能 | 测试标准 | 单位 | 数值 |
|-------|-------------|--------|--------------------|
| 表面电阻率 | IEC 60093 | Ω | 1x10 ¹⁶ |
| 体积电阻率 | IEC 60093 | Ω · cm | 1x10 ¹⁴ |
| 介电强度 | IEC 60243-1 | kV/mm | 19 |

| 其他 | 测试标准 | 单位 | 数值 |
|---------------------------------|--------|----|-----|
| 收缩率(流动方向, Φ = 100 mm, t = 3 mm) | KEP 方法 | % | 2.0 |

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注塑条件



预干燥(建议最大吸水率为 : 0.1 %)

推荐干燥条件 80 °C ~ 100 °C (176 °F ~ 212 °F) 3h ~ 4 h

温度

模具温度: 60°C ~ 80 °C(140 °F~ 176 °F)

料筒温度: 180 °C ~ 210 °C(356 °F ~ 410 °F)

| 模具 | Bn (喷嘴) | B3 (计量) | B2 (压缩) | B1 (喂料) | 料斗 |
|--------------|--------------|--------------|--------------|----------------|--------------|
| 60 ~ 80 °C | 180 ~ 210 °C | 190 ~ 200 °C | 180 ~ 190 °C | 170 C ~ 180 °C | 60 ~ 80 °C |
| 140 ~ 176 °F | 356 ~ 410 °F | 374 ~ 392 °F | 356 ~ 374 °F | 338 ~ 356 °F | 140 ~ 176 °F |

塑化

螺杆转速: 150 mm/s ~ 200 mm/s

背压: 最大 20 bar

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