

Grade: MD 001

Types : 标准品种 (高流动型)

| | | 项目 Item | 试验方法 Method | | 试验条件 Condition | 单位 Unit | MD 001 |
|-------------------------------|-------------------|---|----------------|-------------|-------------------|-------------------|--------------------|
| 物理性能 Physical properties | 密度 | Density | JIS K7112 | ISO 1183-1 | A法 | g/cm ³ | 1.19 |
| | 全光线透过率 | Total luminous transmittance | JIS K7361-1 | ISO 13468-1 | 3mm | % | 93 |
| | 雾度 | Haze | JIS K7136 | ISO 14782 | 3mm | % | 0.3 |
| | 折射率 | Refractive index | JIS K7142 | ISO 489 | nD | - | 1.49 |
| | 吸水率 | Water absorption | JIS K7209 | ISO 62 | 24hr | % | 0.3 |
| 热学性能 Thermal properties | 比热 | Specific heat | JIS K7123 | | | J/(g·K) | 1.5 |
| | 线膨胀系数 | Coefficient of linear thermal expansion | JIS K7197 | | | 1/°C | 6×10 ⁻⁵ |
| | 热传导率 | Thermal conductivity | JIS A1412 | | | W/(m·°C) | 0.2 |
| | 荷重挠曲温度 | Temperature of deflection under load | JIS K7191-1,2 | ISO 75-1,2 | 1.8MPa | °C | 87 |
| | 维卡软化温度 | Vicat softening temperature | JIS K7206 | ISO 306 | B50 | °C | 94 |
| | 熔融指数 | Melt flow rate | JIS K7210 | ISO 1133 | 230°C, 3.8kg | g/10min | 6.0 |
| | 螺旋流动长 (厚度2mm) | Spiral flow (2mm thickness) | MCC法 | MCC Method | 230°C | mm | 190 |
| | | | | | 250°C | mm | 290 |
| 成型收缩率 | Mold shrinkage | MCC法 | MCC Method | | % | 0.2-0.6 | |
| 机械性能 Mechanical properties | 拉伸强度 | Tensile strength | JIS K7161-2 | ISO 527-2 | 1A/5 | MPa | 71 |
| | 拉伸破坏伸长率 | Elongation | JIS K7161-2 | ISO 527-2 | 1A/5 | % | 7 |
| | 拉伸弹性率 | Modulus of elasticity | JIS K7161-2 | ISO 527-2 | 1A/1 | GPa | 3.3 |
| | 弯曲强度 | Flexural strength | JIS K7171 | ISO 178 | | MPa | 130 |
| | 弯曲弹性率 | Flexural modulus | JIS K7171 | ISO 178 | | GPa | 3.3 |
| | 简支梁冲击强度 | Charpy impact strength | JIS K7111-1 | ISO 179-1 | 1eU unnotched | kJ/m ² | 19 |
| | | | | | 1eA Vnotched | kJ/m ² | 1.4 |
| 洛氏硬度 | Rockwell hardness | JIS K7202-2 | ISO 2039-2 | M scale | - | 94 | |
| 电气性能 Electrical properties | 表面电阻系数 | Surface resistivity | JIS K6911 | | | Ω | >10 ¹⁶ |
| | 体积电阻系数 | Electrical volume resistivity | JIS K6911 | | | Ωm | >10 ¹³ |
| | 绝缘击穿强度 | Dielectric strength | JIS K6911 | | 4kV/sec | MV/m | 20 |
| | 介电常数 | Dielectric constant | JIS K6911 | | 60Hz | - | 3.7 |
| | 介质衰耗因数 | Power factor | JIS K6911 | | 60Hz | - | 0.05 |
| | 耐电弧性 | Arc resistance | JIS K6911 | | | - | 无痕 No track |
| 燃烧性能 | 燃烧等级 | Flammability classification | UL94 | | 1.5mm, 3.0mm | - | HB |

*数值仅为代表值，并非保证值。

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