# 改性 ABS (DY-2032)

## ABS Resin (DY-2032)

### 一般信息
### General Information

| | | | |
|---|---|---|---|
| | 特征<br>Features | ● 通用级<br>● 高冲击<br>● 高强度<br>● 尺寸稳定性 | General Purpose<br>High impact<br>High Rigidity<br>Good Dimensional Stability |
| | 应用<br>Uses | ● 电器产品<br>●Electronics and Electrical Products | |
| | 形态<br>Forms | ● 粒子<br>● Pellets | |
| | 加工方法<br>Processing Method | ● 注塑<br>● Injection Molding | |

### 产品性能
### Typical Properties

| | | 测试标准<br>Test standard | 测试条件<br>Test Condition | 典型值<br>Typical Value |
|---|---|---|---|---|
| 物理性能<br>Physical | 熔融指数<br>Melt Flow Index | ASTM D1238 | 220℃/10kg | 20g/10min |
| | 密度<br>Specific Gravity | ASTM D792 | 23℃ | 1.05g/cm$^3$ |
| | 成型收缩率<br>Mold Shrinkage | ASTM D955 | 23℃ | 0.3-0.6% |
| | 洛氏硬度<br>Rockwell Hardness | ASTM D785 | R | 106 |
| 力学性能<br>Mechanical | 拉伸强度<br>Tensile Strength | ASTM D638 | 50mm/min | 45MPa |
| | 断裂伸长率<br>Tensile Elongation | ASTM D638 | 50mm/min | 12% |
| | 弯曲强度<br>Flexural Strength | ASTM D790 | 1.3mm/min | 65Mpa |
| | 弯曲模量<br>Flexural Modulus | ASTM D790 | 1.3mm/min | 2350Mpa |
| | 悬臂梁缺口冲击强度<br>Izod Notched Impact Strength | ASTM D256 | 23℃ | 200 J/m |
| 热性能<br>Thermal | 热变形温度(未退火)<br>Heat Deflection Temperature (Unannealed) | ASTM D648 | 1.82MPa | 80℃ |
| 燃烧<br>Firing | 水平燃烧<br>Horizontal Burning | UL-94 | 3.0mm | HB |

## 加工信息
## Processing Guidelines

| | |
|---|---|
| 干燥条件<br>Drying | 80-90℃, 2.0-4.0h |
| 后段温度<br>Rear Temperature | 190℃-210℃ |
| 中段温度<br>Middle Temperature | 200℃-220℃ |
| 前段温度<br>Front Temperature | 210℃-230℃ |
| 喷嘴温度<br>Nozzle Temperature | 210℃-230℃ |
| 熔体温度<br>Melt Temperature | 220℃-240℃ |
| 模温<br>Mold Temperature | 70℃-80℃ |
| 注射压力<br>Injection Pressure | 70-100MPa |
| 背压<br>Back pressure | 2-6MPa |
| 螺杆转速<br>Screw Speed | 40-60rpm |

**备注：**
**Note：**

1. 所有数据为实验室典型值，仅供参考，不作为产品标准。
   All data are typical values from laboratory. The data are used for reference only, not as production standard.
2. 生产时避免材料和其他材料、灰尘及杂物接触。
   Avoid contact with other materials, dust and debris in the injection processing.
3. 注塑时避免材料长时间停留在螺杆中。
   Avoid long time stay in the barrel in the injection processing.