

High Heat Grade 耐热型  
TOYOLAC™ 440Y MH1 U

FEATURE 特点  
High Heat (DTL 92 °C)

APPLICATION 用途  
Automotive Parts

高耐热 (DTL 92 °C)

汽车配件, 一般应用

TECHNICAL DATA SHEET 技术数据表

| PROPERTY<br>性能                                         | TEST METHOD<br>测试方法      | TEST CONDITION<br>测试条件 | UNITS<br>单位 | TOYOLAC™<br>440Y MH1 U |
|--------------------------------------------------------|--------------------------|------------------------|-------------|------------------------|
| Physical Properties 物理性能                               |                          |                        |             |                        |
| Density<br>密度                                          | ISO 1183                 | 23 °C                  | kg/m³       | 1060                   |
| Melt Flow Rate<br>流动系数                                 | ISO 1133                 | 220 °C / 10 kg         | g/10 min    | 10                     |
| Mold Shrinkage<br>成型收缩率                                | ASTM D955                | 23 °C / 50% RH         | %           | 0.4 – 0.7              |
| Glass Content<br>玻纤含量                                  | –                        | –                      | –           | –                      |
| Mechanical Properties 机械性能                             |                          |                        |             |                        |
| Charpy Impact Strength,<br>Notched<br>Charpy 耐冲击强度, 缺口 | ISO 179/1eA              | 23 °C / 50% RH         | kJ/m²       | 15                     |
| Tensile Strength<br>拉伸强度-降伏点                           | ISO 527                  | 50 mm / min            | MPa         | 53                     |
| Tensile Elongation at<br>Break<br>拉伸伸长率-断裂点            | ISO 527                  | 50 mm / min            | %           | 13                     |
| Tensile Modulus<br>拉伸模数                                | ISO 527                  | 1 mm / min             | MPa         | 2800                   |
| Flexural Strength<br>弯曲强度                              | ISO 178                  | 2 mm / min             | MPa         | 83                     |
| Flexural Modulus<br>弯曲模数                               | ISO 178                  | 2 mm / min             | MPa         | 2560                   |
| Thermal Properties 热性能                                 |                          |                        |             |                        |
| Deflection Temperature<br>Under Load<br>热变形温度          | ISO 75                   | 1.8 MPa / 120 °C/hr    | °C          | 92                     |
| Appearance 表面                                          |                          |                        |             |                        |
| Glossiness<br>光泽度                                      | –                        | –                      | –           | –                      |
| Light Transmittance<br>光线透光率                           | –                        | –                      | –           | –                      |
| Haze<br>模糊系数                                           | –                        | –                      | –           | –                      |
| Flammability 燃烧性                                       |                          |                        |             |                        |
| Flammability<br>燃烧性                                    | UL 94<br>File No. E41797 | –                      | –           | HB                     |

Note: The above values are typical data for the products under specific test conditions and not intended for use as limiting specifications.  
[ 以上数据谨代表在特定条件下所得的测定值的代表例 ]

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