

## K-Resin® KR03E

SB

INEOS Styrolution

K-Resin® KR03E processes very well in injection molding, providing good cycle times and design flexibility. K-Resin® KR03E alone or in blends, can be extruded into sheet and thermoformed on conventional equipment at high output rates. The favorable economics of K-Resin® SBC, along with high productivity, have made possible tough clear disposable drinking cups, lids and other packaging applications. K-Resin® KR03E will process on most conventional equipment, allowing the molder to run a crystal clear bottle without expensive machine modifications, special molds, different screws, or dryers. K-Resin® KR03 can be blow molded in a broad range of sizes and shapes, from small pill bottles and medical drainage units, to very tall display bottles. It also can be injection blow molded into extremely high impact bottles with glass-like clarity.

| 流变性能          | 数值  | 单位                     | 试验方法     |
|---------------|-----|------------------------|----------|
| ISO数据         |     |                        |          |
| 熔体体积流动速度, MVR | 7.5 | cm <sup>3</sup> /10min | ISO 1133 |
| 温度            | 200 | °C                     | -        |
| 载荷            | 5   | kg                     | -        |
| 熔融指数, MFI     | 7.5 | g/10min                | ISO 1133 |
| 熔融指数温度        | 200 | °C                     | -        |
| 熔融指数负载        | 5   | kg                     | -        |

| 机械性能              | 数值   | 单位                | 试验方法        |
|-------------------|------|-------------------|-------------|
| ISO数据             |      |                   |             |
| 拉伸模量              | 1500 | MPa               | ISO 527     |
| 屈服应力              | 25   | MPa               | ISO 527     |
| 屈服伸长率             | 2.2  | %                 | ISO 527     |
| 名义断裂伸长率           | >50  | %                 | ISO 527     |
| 无缺口简支梁冲击强度, +23°C | 无断裂  | kJ/m <sup>2</sup> | ISO 179/1eU |
| 简支梁缺口冲击强度, +23°C  | 2    | kJ/m <sup>2</sup> | ISO 179/1eA |
| 弯曲模量, 23°C        | 1400 | MPa               | ISO 178     |
| 弯曲强度              | 30   | MPa               | ISO 178     |

| 热性能                | 数值 | 单位 | 试验方法        |
|--------------------|----|----|-------------|
| ISO数据              |    |    |             |
| 热变形温度, 1.80 MPa    | 61 | °C | ISO 75-1/-2 |
| 热变形温度, 0.45 MPa    | 76 | °C | ISO 75-1/-2 |
| 维卡软化温度, 50°C/h 50N | 60 | °C | ISO 306     |

| 其它性能  | 数值   | 单位                | 试验方法     |
|-------|------|-------------------|----------|
| ISO数据 |      |                   |          |
| 吸湿性   | 0.07 | %                 | 类似ISO 62 |
| 密度    | 1010 | kg/m <sup>3</sup> | ISO 1183 |

| 流变计算用参数 | 数值    | 单位                | 试验方法 |
|---------|-------|-------------------|------|
| ISO数据   |       |                   |      |
| 熔体密度    | 907   | kg/m <sup>3</sup> | -    |
| 熔体      | 0.184 | W/(m K)           | -    |
| 熔体的比热   | 2300  | J/(kg K)          | -    |
| 喷射温度    | 60    | °C                | -    |

| 光学特性   | 数值  | 单位 | 试验方法        |
|--------|-----|----|-------------|
| ASTM数据 |     |    |             |
| 雾度     | 1.5 | %  | ASTM D 1003 |
| 光透射率   | 91  | %  | ASTM D 1003 |

| 加工推荐 (注塑) | 数值        | 单位 | 试验方法 |
|-----------|-----------|----|------|
| 预干燥-温度    | 50        | °C | -    |
| 预干燥-时间    | 3 - 4     | h  | -    |
| 注塑熔体温度    | 180 - 240 | °C | -    |
| 模具温度      | 30 - 50   | °C | -    |

## 特征

## K-Resin® KR03E

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### 加工方法

注塑, 片材挤出成型, 吹塑, 热成型

### 特征

共混树脂, High Gloss, 共聚物

### 供货形式

粒料

### 生态估价

食物接触声明

### 特殊性能

高冲击韧性的/经抗冲改性的, 透明.

### 应用

IT/商务机器, 药物, 包装

### 注塑

As a rule, the K-Resin® granules do not have to be pre-dried. However, in the event of unfavorable storage or transportation conditions involving severe temperature fluctuations, moisture can condense on the surface of the granules and this then has to be removed in a pre-drying step. The granules should be pre-dried in a dry-air dryer for 3 to 4 hours at a temperature of about 50 °C.

#### PROCESSING

Melt temperature, range: 180 - 240 °C

Mold temperature, range: 30 - 50 °C