

## K-Resin® KR03

SB

INEOS Styrolution

K-Resin® KR03 processes very well in injection molding, providing good cycle times and design flexibility. K-Resin® KR03 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® KR03 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	cm³/10min	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/m²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	2	kJ/m²	ISO 179/1eA
弯曲模量, 23°C	1790	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
ASTM数据			
维卡温度	85	°C	ASTM D 1525

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/m³	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/m³	-
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			
光泽度	162	-	ASTM D 2457
光透射率	92	%	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® KR03

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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

医用级, Device Master File

### 特殊性能

透明.

### 应用

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