

Styrolux® 656C

SB

INEOS Styrolution

Styrolux® 656C comprises of clear styrene butadiene copolymer. The grade has in general an intrinsic toughness, is easy to process and works as modifier and compatibilizer not only in polystyrene but in many other polymers, e.g. polyolefins. For Styrolux® 656C food contact statements are available upon request. Styrolux® 656C shows enhanced flow properties and is used almost exclusively used for injection molding of rigid, tough parts, requiring highest levels of clarity and surface gloss. Styrolux 656C is also offered for medical applications and is Gamma, X-ray & ETO sterilizable.

流变性能	数值	单位	试验方法
ISO数据			
熔体体积流动速度, MVR	16	cm ³ /10min	ISO 1133
温度	200	°C	-
载荷	5	kg	-

机械性能	数值	单位	试验方法
ISO数据			
拉伸模量	1600	MPa	ISO 527
屈服应力	35	MPa	ISO 527
屈服伸长率	2.5	%	ISO 527
名义断裂伸长率	20	%	ISO 527
拉伸蠕变模量, 1h	1550	MPa	ISO 899-1
无缺口简支梁冲击强度, +23°C	20	kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	1	kJ/m ²	ISO 179/1eA

热性能	数值	单位	试验方法
ISO数据			
热变形温度, 1.80 MPa	59	°C	ISO 75-1/-2
热变形温度, 0.45 MPa	73	°C	ISO 75-1/-2
维卡软化温度, 50°C/h 50N	60	°C	ISO 306
1.5mm名义厚度时的燃烧性	HB	class	UL 94
测试用试样的厚度	1.5	mm	-
UL注册	是的	-	-
厚度为h时的燃烧性	HB	class	UL 94
测试用试样的厚度	3.0	mm	-
UL注册	是的	-	-

其它性能	数值	单位	试验方法
ISO数据			
吸水性	0.07	%	类似ISO 62
密度	1020	kg/m ³	ISO 1183

加工推荐 (注塑)	数值	单位	试验方法
注塑熔体温度	180 - 250	°C	-
模具温度	30 - 50	°C	-

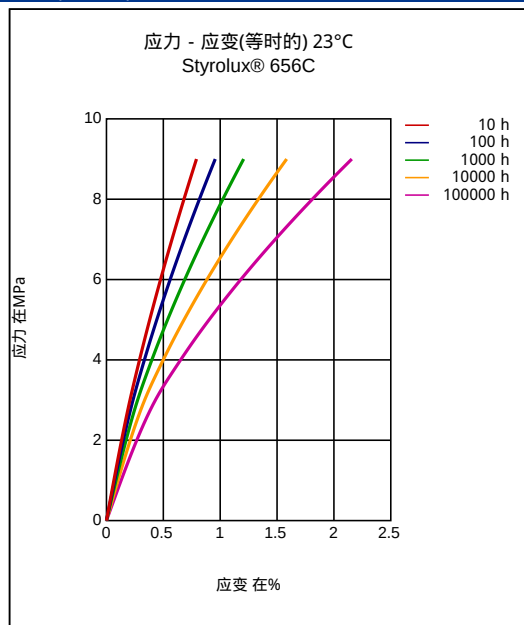
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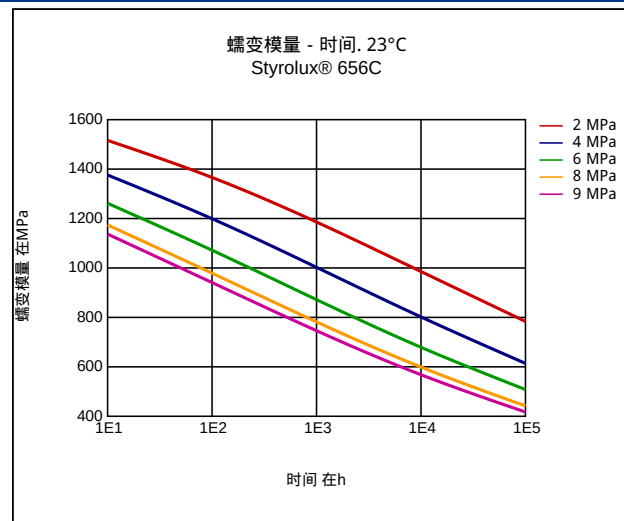
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函数

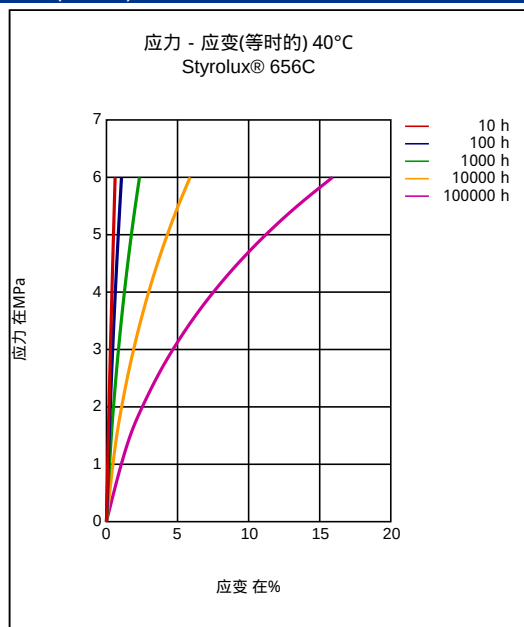
应力 - 应变(等时的) 23°C



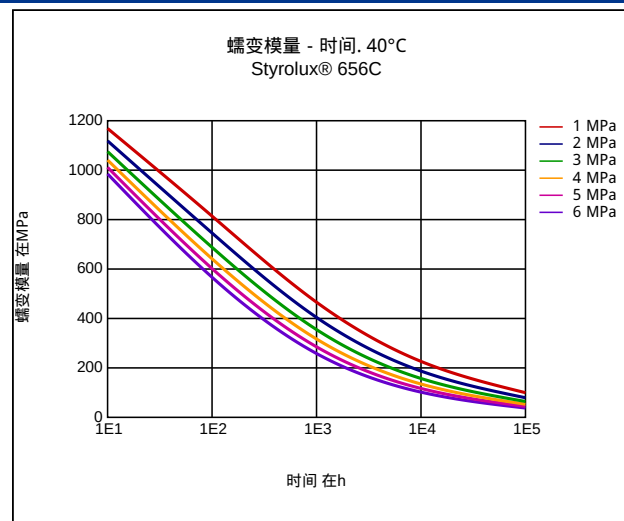
蠕变模量 - 时间, 23°C



应力 - 应变(等时的) 40°C



蠕变模量 - 时间, 40°C

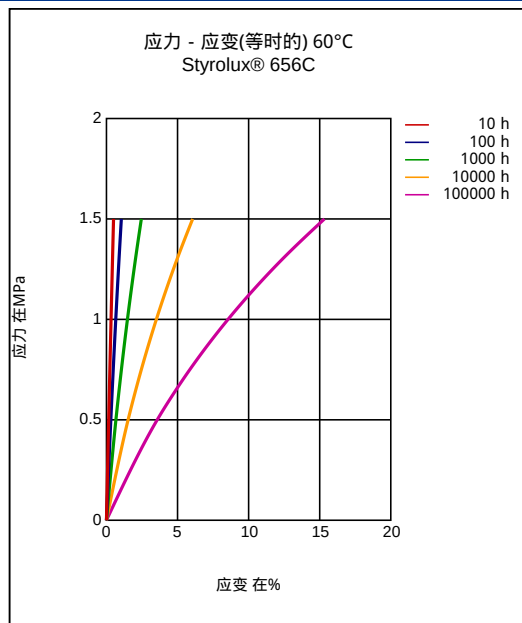


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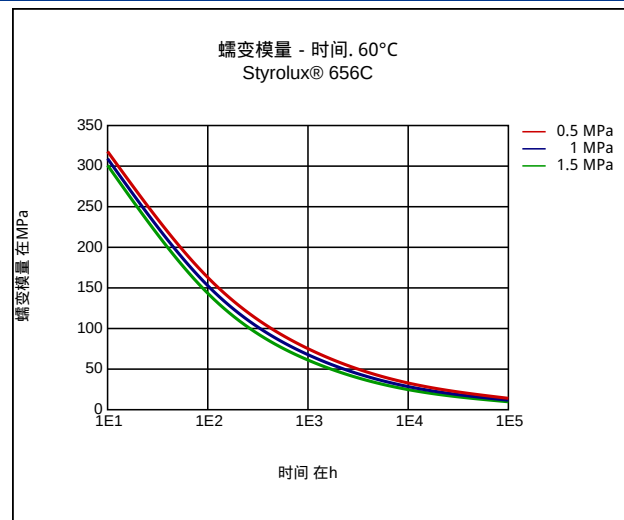
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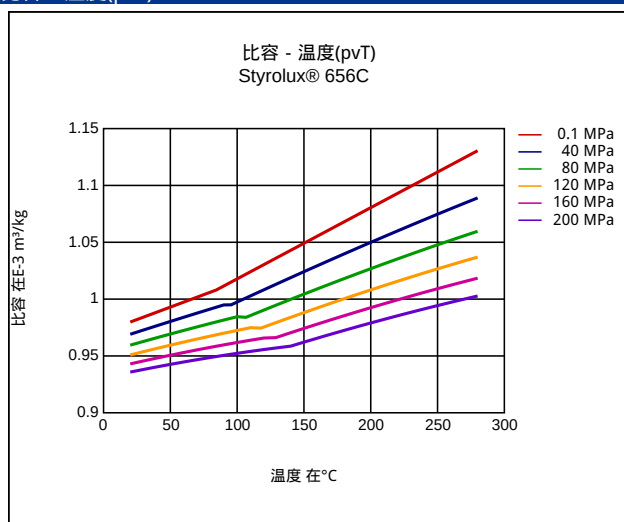
应力 - 应变(等时的) 60°C



蠕变模量 - 时间, 60°C



比容 - 温度(pvT)



特征

加工方法

注塑

供货形式

粒料

特殊性能

消毒, 环氧乙烷灭菌(EtO), Gamma irradiation sterilization

耐化学试剂

抗辐射性

生态估价

医用级, Biocompatibility ISO 10993, US药物六级认证, Drug Master File, Long term supply assurance, 食物接触声明, 10/2011认证, FDA 21 CFR认证

应用

药物

注塑

As a rule, the Styrolux® granules do not have to be pre-dried. However, in the event of unfavorable storage or transportation conditions

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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 - 250 °C

Mold temperature, range: 30 - 50 °C