

Styrolux® 684D

SB

INEOS Styrolution

Styrolux® 684D 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® 684D food contact statements are available upon request. Styrolux® 684D is a general purpose grade and can be used in injection molding for parts with enhanced toughness, in sheet and film extrusion as well as blow molding. Parts made of 684D reveal excellent printability.

流变性能	数值	单位	试验方法
ISO数据			
熔体体积流动速度, MVR	11	cm³/10min	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	1400	MPa	ISO 527
屈服应力	26	MPa	ISO 527
屈服伸长率	2.3	%	ISO 527
简支梁缺口冲击强度, +23°C	2	kJ/m²	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

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	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	0.155	W/(m K)	-
熔体的比热	2100	J/(kg K)	-
喷射温度	77	°C	-

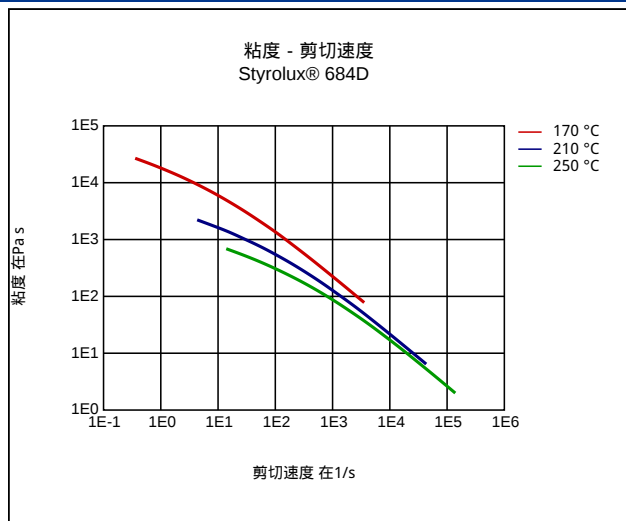
加工推荐 (注塑)	数值	单位	试验方法
注塑熔体温度	180 - 250	°C	-
模具温度	30 - 50	°C	-

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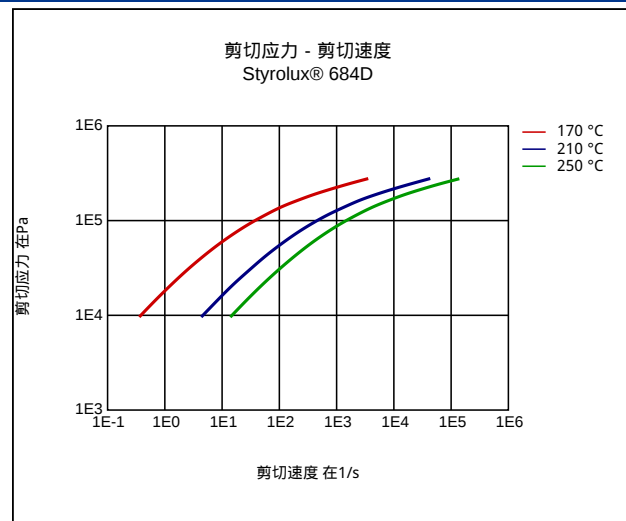
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函数

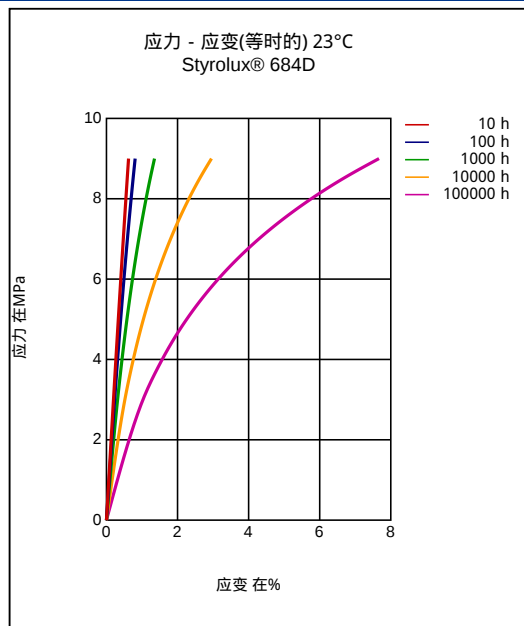
粘度 - 剪切速度



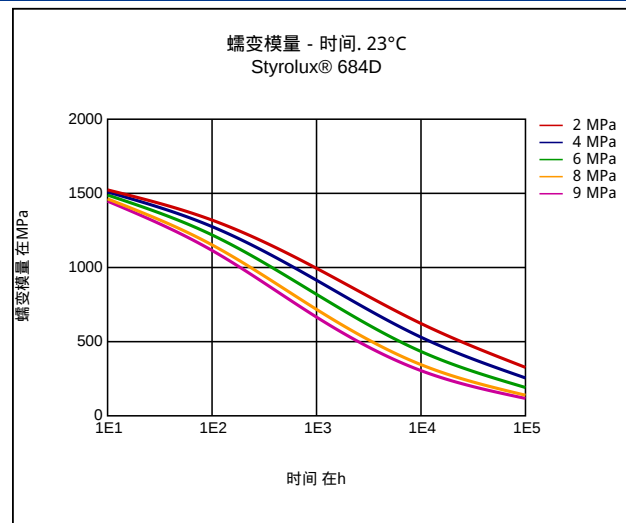
剪切应力 - 剪切速度



应力 - 应变(等时的) 23°C



蠕变模量 - 时间, 23°C

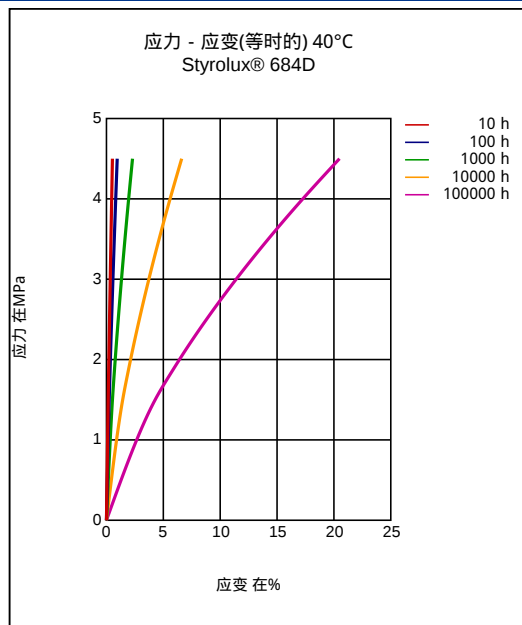


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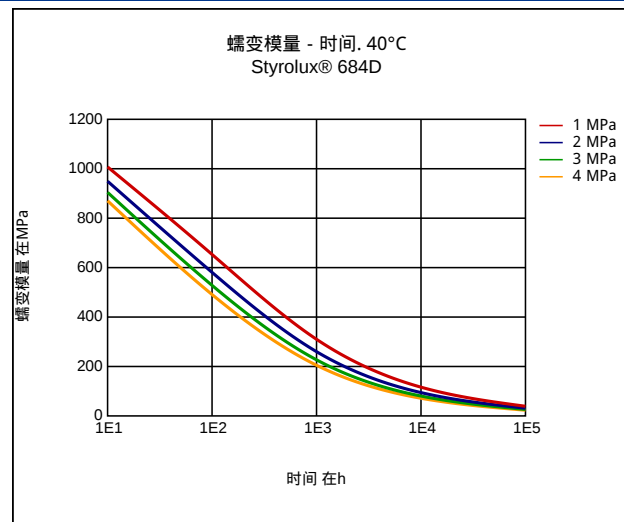
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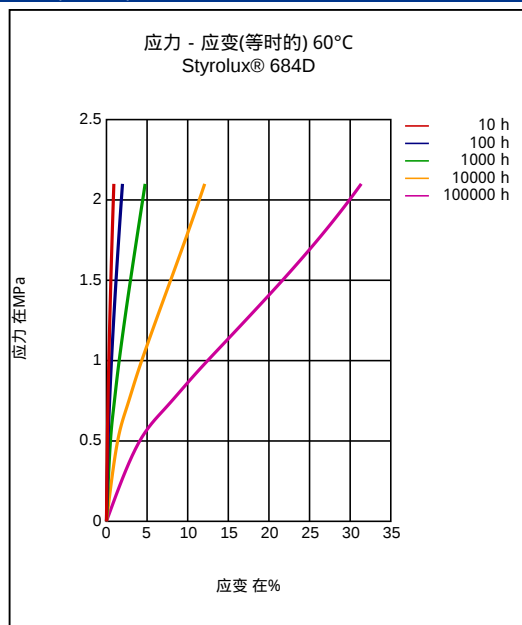
应力 - 应变(等时的) 40°C



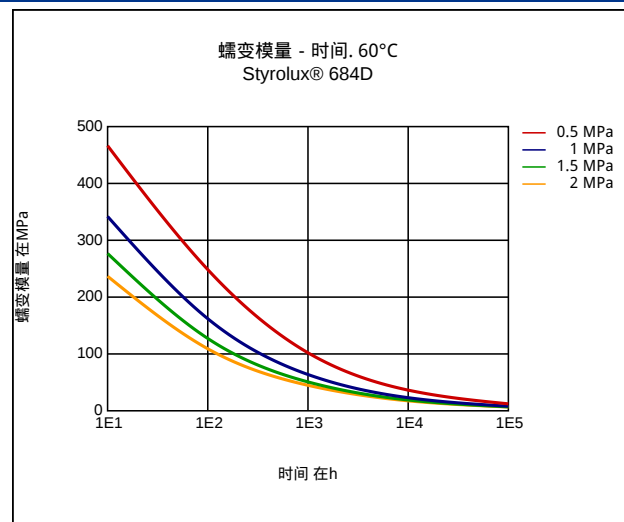
蠕变模量 - 时间, 40°C



应力 - 应变(等时的) 60°C



蠕变模量 - 时间, 60°C



特征

加工方法

注塑, 薄膜挤出成型, 片材挤出成型, 其它挤出成型, 吹塑

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

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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 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

薄膜挤出成型

PROCESSING

Blown film, Melt temperature: 180 °C

Flat film, Melt temperature: 190 - 230 °C

其它挤出成型

PROCESSING

Pipes, Melt temperature: 230 °C

板材挤出成型

PROCESSING

Sheets, Melt temperature: 190 °C