

PLEXIGLAS® Softlight zk6BR df22

PMMA

Röhm GmbH

Productprofil:

PLEXIGLAS® Softlight zk6BR df22, based on PLEXIGLAS® Resist zk6BR, is an impact modified molding compound characterized by diffuse scattering of light.

Typical properties of impact modified PLEXIGLAS® molding compound are

1. high break resistance and impact strength
2. improved resistance to stress cracking
3. good weather resistance
4. high surface hardness and mar resistance
5. the pleasant feel and sound of the moldings.

PLEXIGLAS® Softlight zk6BR df22 is characterized by the following special properties:

1. very good lightdiffusion combined with excellent light transmission
2. matte surfaces can be obtained by varying the extrusion parameters.

Application:

Used for extruding profiles and sheets, but also for injection molding items for lighting engineering applications

Example:

applications that call for light diffusion combined with optimum transmission

Processing:

PLEXIGLAS® Softlight zk6BR df22 can be processed on extruders with 3-zone general purpose screws for engineering thermoplastics. The matte finish of profile surfaces depends very much on machine design (calibrating unit, polishing rolls) and cooling conditions. It can be enhanced by controlled temperature reduction.

Physical Form / Packaging:

PLEXIGLAS® Softlight df molding compounds are supplied as pellets of uniform size, packaged in 25kg polyethylene bags; other packaging on request.

流变性能	数值	单位	试验方法
ISO数据			
熔体体积流动速度, MVR	1.4	cm³/10min	ISO 1133
温度	230	°C	-
载荷	3.8	kg	-
机械性能	数值	单位	试验方法
ISO数据			
拉伸模量	1800	MPa	ISO 527
屈服应力	45	MPa	ISO 527
屈服伸长率	5	%	ISO 527
名义断裂伸长率	40	%	ISO 527
无缺口简支梁冲击强度, +23°C	54	kJ/m²	ISO 179/1eU
热性能	数值	单位	试验方法
ISO数据			
玻璃化转变温度 (10°C/min)	109	°C	ISO 11357-1/-2
热变形温度, 1.80 MPa	93	°C	ISO 75-1/-2

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热变形温度, 0.45 MPa	99	°C	ISO 75-1/-2
维卡软化温度, 50°C/h 50N	98	°C	ISO 306
线性热膨胀系数, 平行	90	E-6/K	ISO 11359-1/-2
1.5mm名义厚度时的燃烧性	HB	class	UL 94

电性能	数值	单位	试验方法
ISO数据			
体积电阻率	>1E13	Ohm*m	IEC 62631-3-1
表面电阻率	1E13	Ohm	IEC 62631-3-2

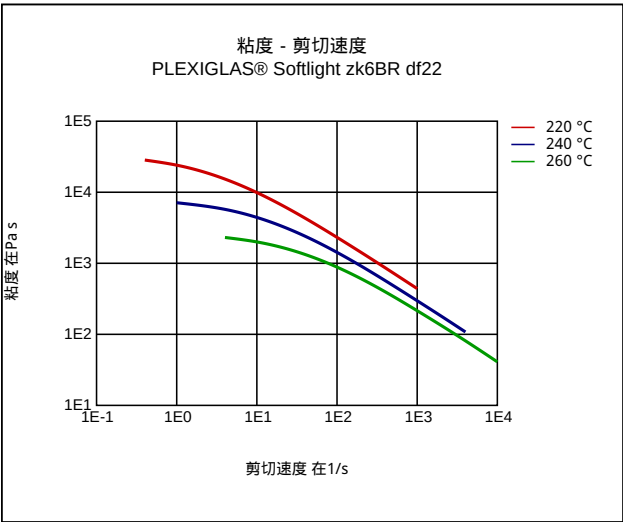
其它性能	数值	单位	试验方法
ISO数据			
密度	1150	kg/m³	ISO 1183

模塑测量的特殊性能	数值	单位	试验方法
ISO数据			
透光率	86	%	ISO 13468-1, -2

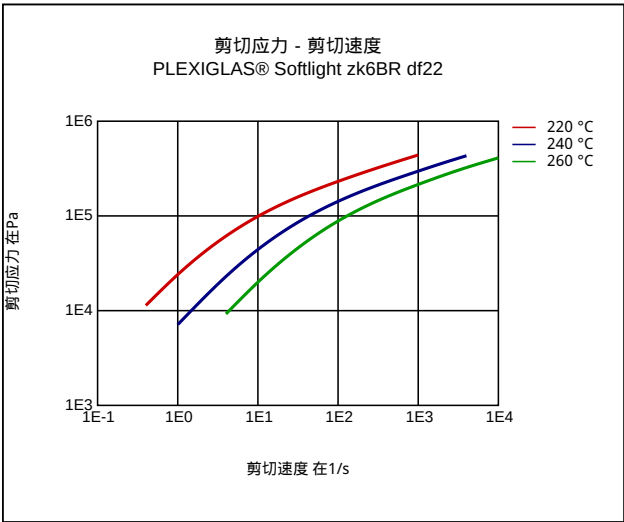
试样制备条件	数值	单位	试验方法
ISO数据			
注塑, 熔体温度	255	°C	ISO 294
注塑, 模具温度	58	°C	ISO 294
注塑, 注射速度	195	mm/s	ISO 294

函数

粘度 - 剪切速度



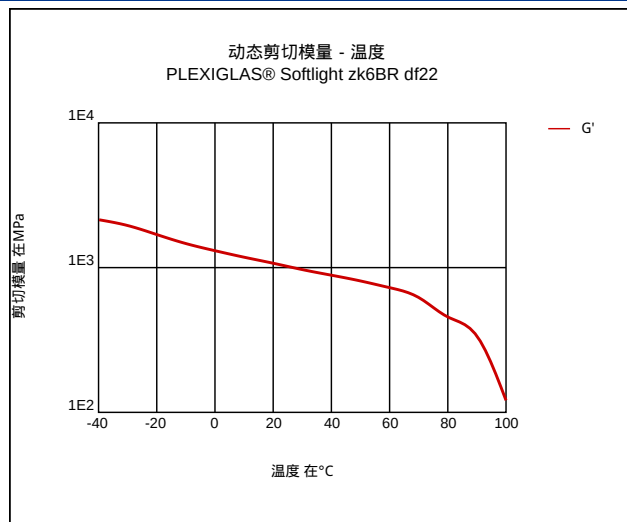
剪切应力 - 剪切速度



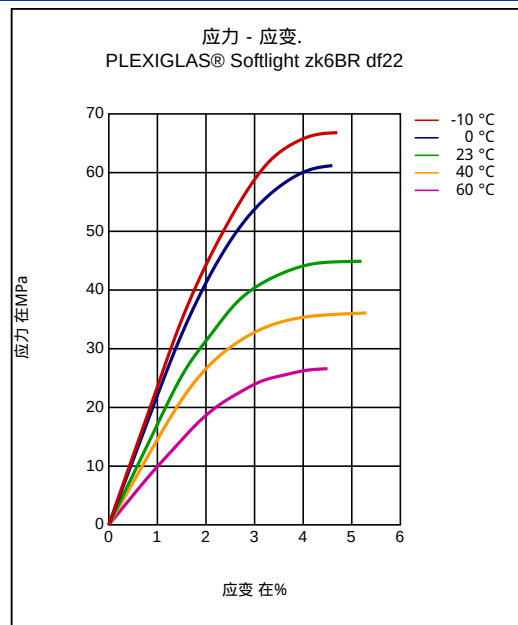
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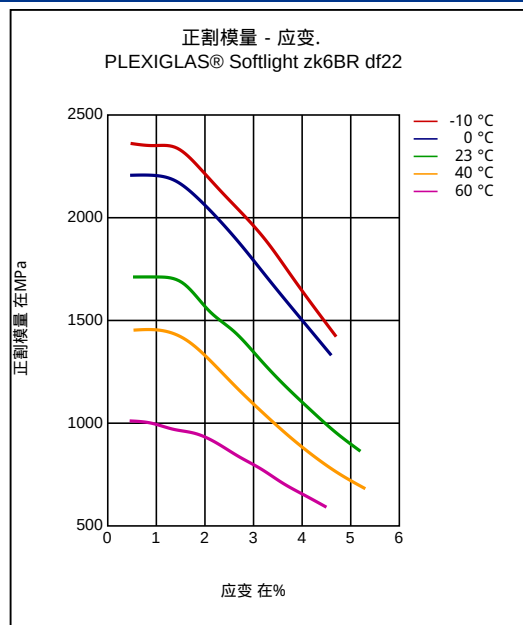
动态剪切模量 - 温度



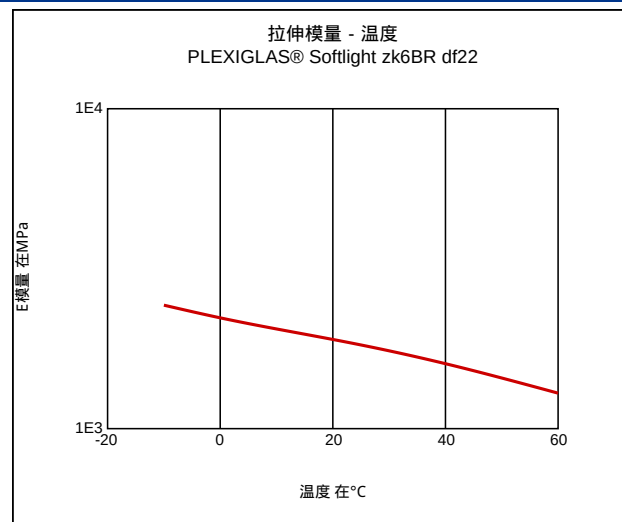
应力 - 应变.



正割模量 - 应变.



拉伸模量 - 温度



特征

加工方法

注塑, 异型材挤出成型, 片材挤出成型, 其它挤出成型

供货形式

粒料

添加剂

脱模助剂

特殊性能

高冲击韧性的/经抗冲改性的, 经光稳处理的/耐光的,
经耐紫外线处理的/耐气候的

特征

光散射

耐化学试剂

耐环境应力裂纹性

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注塑

PREPROCESSING

Predrying temperature: max. 80 °C

Predrying time in a desiccant-type drier: 2 - 3 h

PROCESSING

Melt temperature: 220 - 260 °C

Mold temperature: 60 - 90 °C

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PREPROCESSING

Predrying temperature: max. 80 °C

Predrying time in a desiccant-type drier: 2 - 3 h

PROCESSING

Melt temperature: 230 - 260 °C

Die temperature: 230 - 260 °C

板材挤出成型

PREPROCESSING

Predrying temperature: max. 80 °C

Predrying time in a desiccant-type drier: 2 - 3 h

PROCESSING

Melt temperature: 230 - 260 °C

Die temperature: 230 - 260 °C