HOSTAFORM® C 9021 ECO-C 872

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Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GNR, 03-002
POM copolymer injection molding type with high rigidity, hardness and toughness; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation. Monomers and additives are listed in EU-Regulation (EU) 10/2011 FDA compliant according to 21 CFR 177.2470 .Burning rate ISO 3795 and FMVSS 302 < 75 mm/min for a thickness more than 1 mm. Ranges of applications: automotive engineering, precision engineering, electric and electronical industry, domestic appliances. FDA = Food and Drug Administration (USA) FMVSS = Federal Motor Vehicle Safety Standard (USA) UL = Underwriters Laboratories (USA).
ECO-C: Hostaform® C 9021 ECO-C 872 incorporates circular content derived from captured carbon dioxide emissions in the finished product through mass balance allocation. The product is a drop-in replacement to the standard grade with the same performance and processing properties and contributes to the displacement of virgin fossil fuel resources. The feedstock utilizing captured carbon dioxide emissions is ISCC CFC certified as low carbon intensity methanol.

产品信息

树脂鉴别	POM		ISO 1043
制品标识码	>POM<		ISO 11469

流变性能

熔体体积流动速度	8	cm^3/10min	ISO 1133
温度	190	°C	
负荷	2.16	kg	
模塑收缩率, 平行	2.0	%	ISO 294-4, 2577
模塑收缩率, 垂直	1.9[1]	%	ISO 294-4, 2577

[1]: @ 195°C

机械性能

拉伸模量	2850	MPa	ISO 527-1/-2
拉伸屈服应力, 50mm/min	64	MPa	ISO 527-1/-2
屈服伸长率, 50mm/min	9	%	ISO 527-1/-2
断裂标称应变	30	%	ISO 527-1/-2
弯曲模量	2700	MPa	ISO 178
弯曲强度	89	MPa	ISO 178
3.5%应变时的弯曲应力	72	MPa	ISO 178
1%形变时的压缩应力	24	MPa	ISO 604
拉伸蠕变模量, 1h	2500	MPa	ISO 899-1
拉伸蠕变模量, 1000h	1300	MPa	ISO 899-1
简支梁无缺口冲击强度, 23°C	220[P]	kJ/m^2	ISO 179/1eU
简支梁无缺口冲击强度, -30°C	220	kJ/m^2	ISO 179/1eU
简支梁缺口冲击强度, 23°C	6.5	kJ/m^2	ISO 179/1eA
简支梁缺口冲击强度, -30°C	6	kJ/m^2	ISO 179/1eA
球压痕硬度, H 358/30	144	MPa	ISO 2039-1
泊松比	0.399		

[P]: Partial Break

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热性能

熔融温度, 10°C/min	166	°C	ISO 11357-1/-3
热变形温度, 1.8 MPa	104	°C	ISO 75-1/-2
热变形温度, 0.45 MPa	160	°C	ISO 75-1/-2
线性热膨胀系数, 平行	110	E-6/K	ISO 11359-1/-2
线性热膨胀系数, 垂直	110	E-6/K	ISO 11359-1/-2
熔体导热系数	0.155	W/(m K)	ISO 22007-2

阻燃性能

1.5mm名义厚度时的阻燃性	HB	class	IEC 60695-11-10
测试用试样的厚度	1.5	mm	IEC 60695-11-10
厚度为h时的阻燃性	HB	class	IEC 60695-11-10
测试用试样的厚度	3	mm	IEC 60695-11-10
UL认证	yes		UL 94
FMVSS Class	B		ISO 3795 (FMVSS 302)
燃烧速率, 厚度：1毫米	61	mm/min	ISO 3795 (FMVSS 302)

电性能

相对介电常数, 100Hz	4		IEC 62631-2-1
相对介电常数, 1MHz	4		IEC 62631-2-1
相对介电常数, 2GHz	3		IEC 61189-2-721
相对介电常数, 10GHz	3.2		IEC 61189-2-721
介质损耗因子, 100Hz	20	E-4	IEC 62631-2-1
介质损耗因子, 1MHz	50	E-4	IEC 62631-2-1
介质损耗因子, 2GHz	466	E-4	IEC 61189-2-721
介质损耗因子, 10GHz	144	E-4	IEC 61189-2-721
体积电阻率	1E12	Ohm.m	IEC 62631-3-1
表面电阻率	1E14	Ohm	IEC 62631-3-2
介电强度	35	kV/mm	IEC 60243-1
相对漏电起痕指数	600		IEC 60112

其它性能

吸湿率, 2mm	0.2	%	类似ISO 62
吸水率, 2mm	0.65	%	类似ISO 62
密度	1410	kg/m³	ISO 1183

注塑

建议干燥	否	
干燥温度	100	°C
干燥时间，除湿干燥机	3 - 4	h
加工前水分含量	≤ 0.2	%
最优熔体温度	200	°C
最低熔体温度***	190	°C
最高熔体温度	210	°C
螺杆最大切线速度	≤ 0.3	m/s
最优模具温度	100	°C
最低模具温度	80	°C

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最高模具温度	120	°C
保压范围	60 - 120	MPa
保压时间 (h表示部件的最大壁厚mm)	2h²-3	s
背压	4	MPa
顶出温度	127	°C

挤出成型

干燥温度	90 - 110	°C
干燥时间，除湿干燥机	3 - 4	h
加工前水分含量	≤ 0.2	%
最优熔体温度	190	°C
熔体温度范围	180 - 200	°C

特性

加工方法	注塑, 薄膜挤出成型, 异型材挤出成型, 片材挤出成型, 其它挤出成型, 吹塑
添加剂	脱模助剂
可持续	碳捕集

其他信息

注塑

Preprocessing

General drying is not necessary due to low moisture absorption of the resin.

In case of bad storage conditions (water contact or condensed water) the use of a recirculating air dryer (100 to 120 °C / max. 40 mm layer / 3 to 6 hours) is recommended.

Max. Water content 0,2 %

Processing

Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.

Postprocessing

Conditioning e.g. moisturizing is not necessary.

薄膜挤出成型

Preprocessing

General drying is not necessary due to low moisture absorption of the resin.

In case of bad storage conditions (water contact or condensed water) the use of a recirculating air dryer (100 to 120 °C / max. 40 mm

layer / 3 to 6 hours) is recommended.

Max. Water content 0,2 %

Processing

Standard extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.

Melt temperature 180-190 °C

Postprocessing

Conditioning e.g. moisturizing is not necessary.

In case of very thick wall thickness profiles after-annealing it is recommended to reduce internal stress.

Annealing temperature 130-140 °C
Annealing time 10 min/mm thickness

其他挤出成型

Preprocessing

General drying is not necessary due to low moisture absorption of the resin.

In case of bad storage conditions (water contact or condensed water) the use of a recirculating air dryer (100 to 120 °C / max. 40 mm layer / 3 to 6 hours) is recommended.

Max. Water content 0,2 %

Processing

Standard extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.

Melt temperature 180-190 °C

Postprocessing

Conditioning e.g. moisturizing is not necessary.

In case of very thick wall thickness profiles after-annealing it is recommended to reduce internal stress.

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Annealing temperature 130-140 °C
Annealing time 10 min/mm thickness

板材挤出成型

Preprocessing

General drying is not necessary due to low moisture absorption of the resin.

In case of bad storage conditions (water contact or condensed water) the use of a recirculating air dryer (100 to 120 °C / max. 40 mm layer / 3 to 6 hours) is recommended.

Max. Water content 0,2 %

Processing

Standard extruders with grooved feed zone and short compression screws (minimum 25 D) will fit.

Melt temperature 180-190 °C

Postprocessing

Conditioning e.g. moisturizing is not necessary.

In case of very thick wall thickness profiles after-annealing it is recommended to reduce internal stress.

Annealing temperature 130-140 °C
Annealing time 10 min/mm thickness

加工注意事项

Pre-Drying

Drying is not normally required. If material has come in contact with moisture through improper storage or handling or through regrind use, drying may be necessary to prevent splay and odor problems.

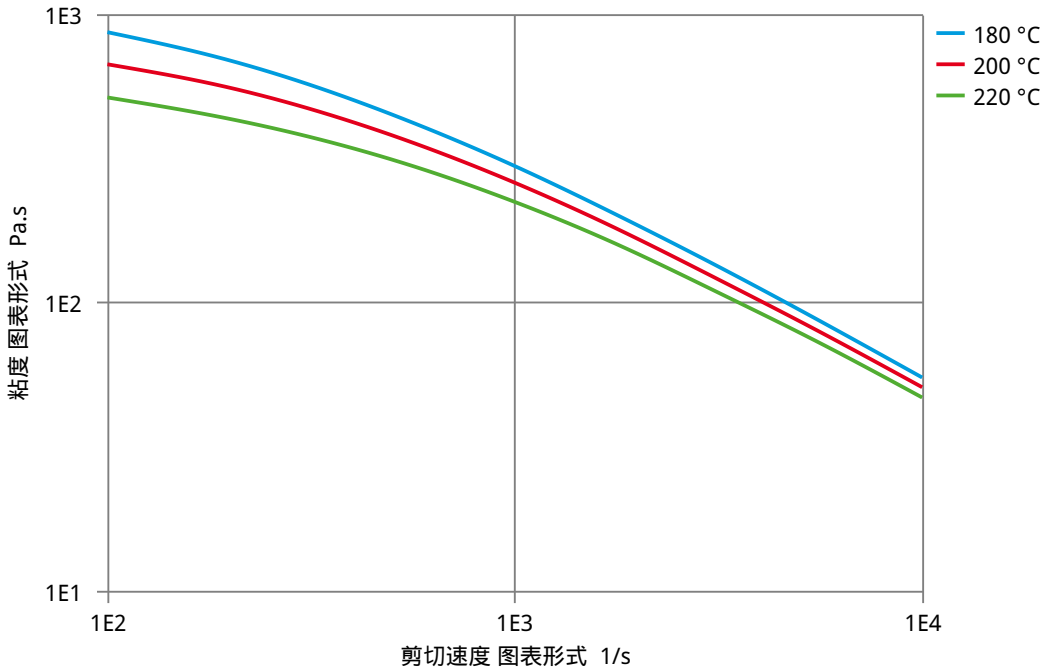
Storage

The product can then be stored in standard conditions until processed.

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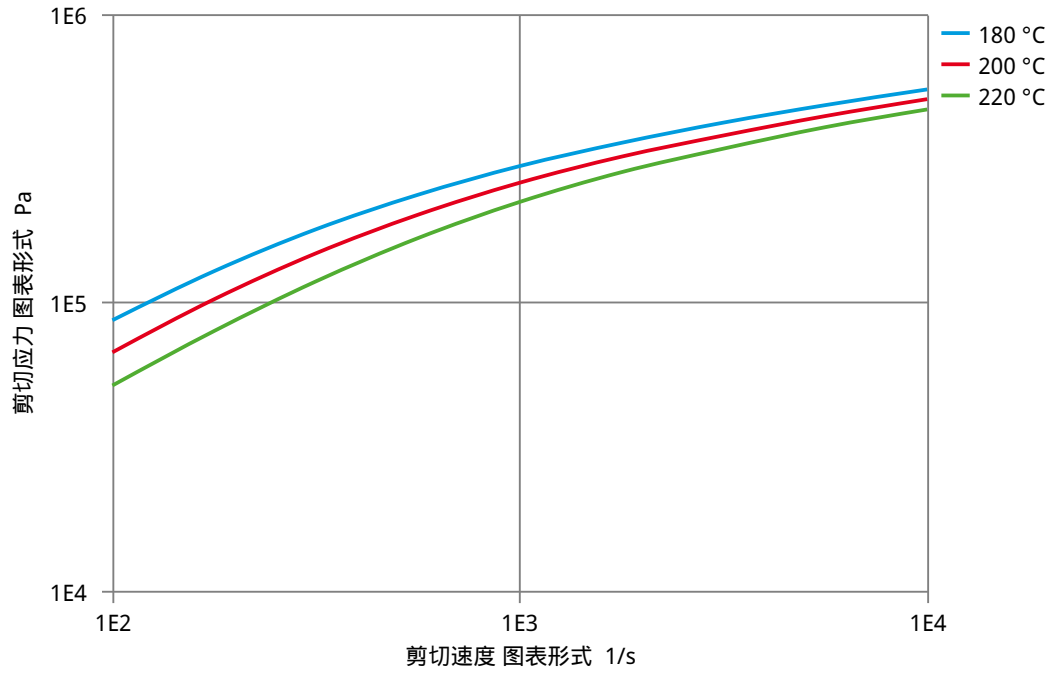
粘度 - 剪切速度



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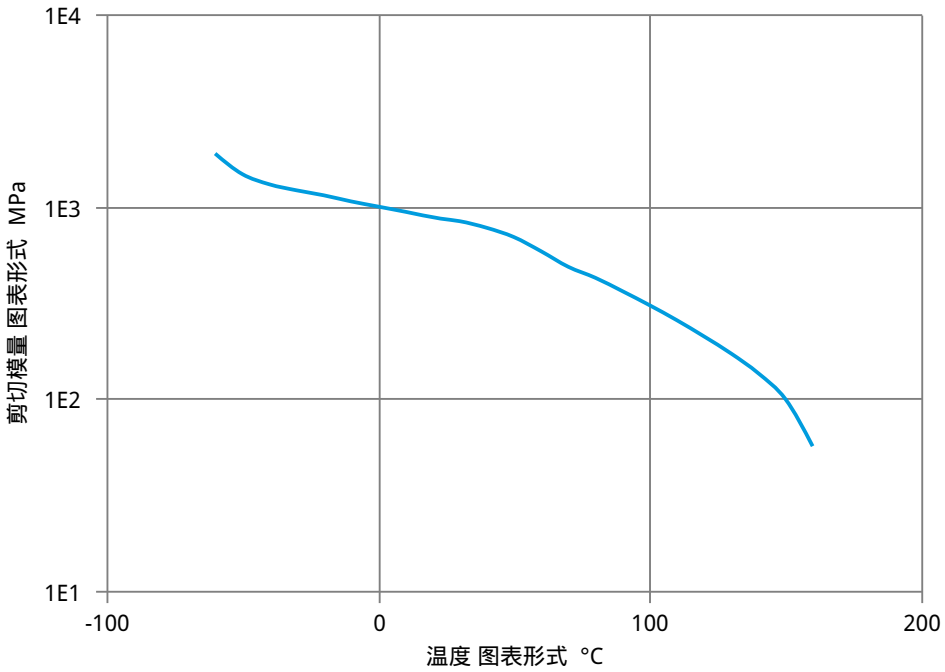
剪切应力 - 剪切速度



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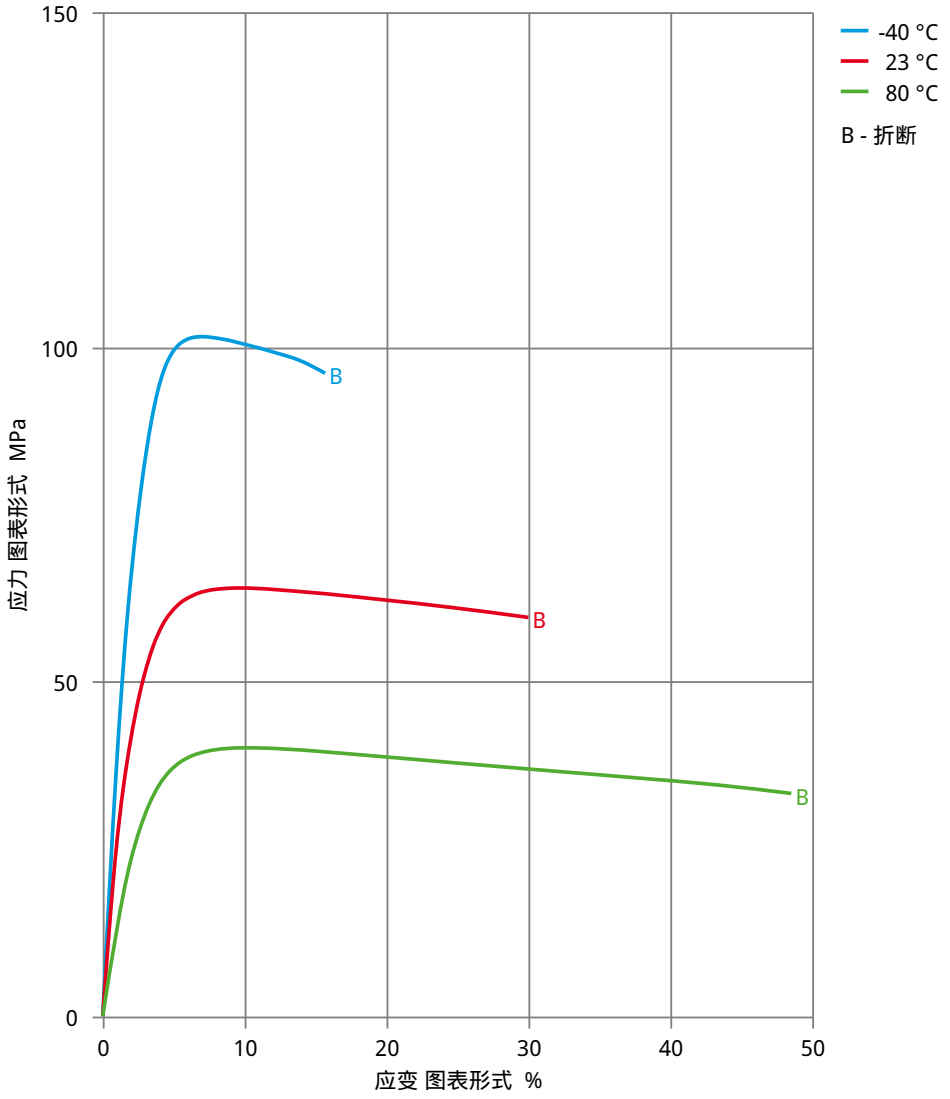
动态剪切模量 - 温度



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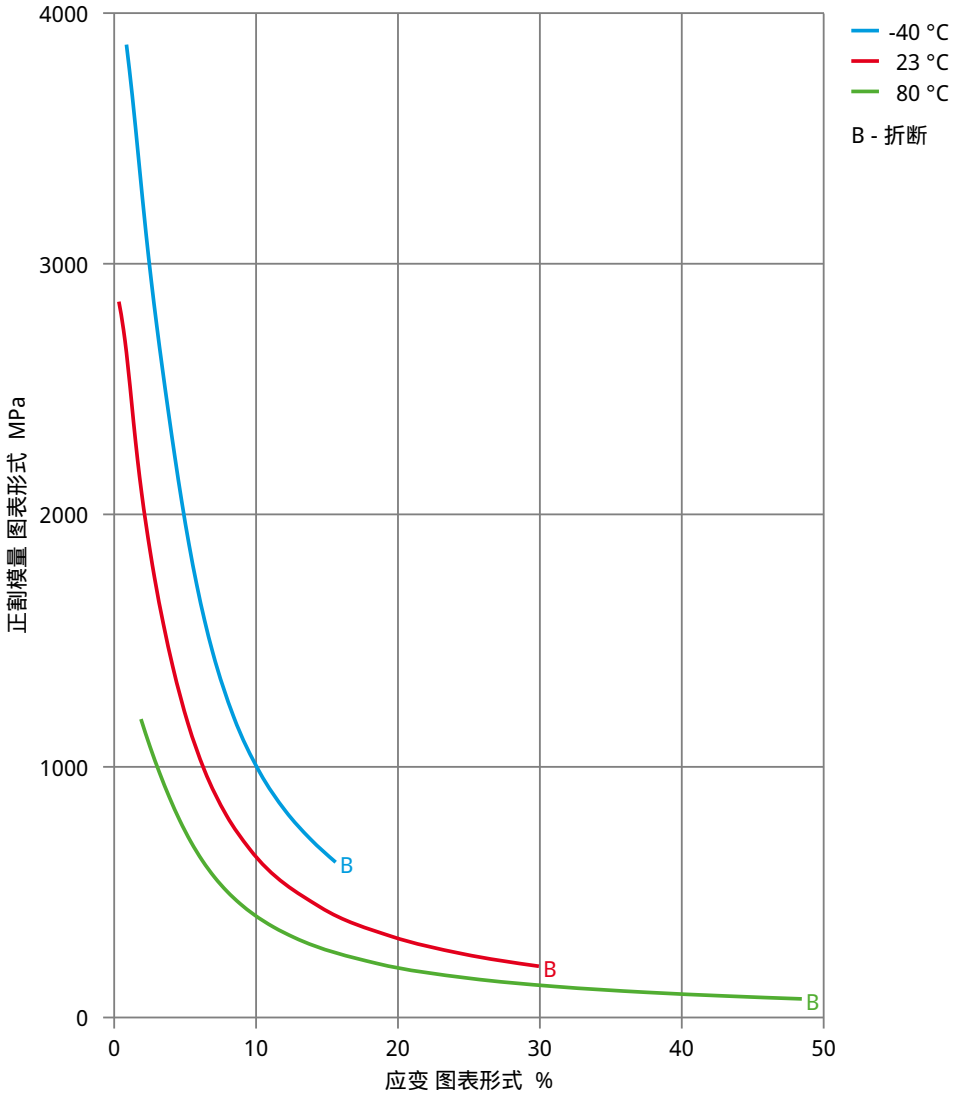
应力 - 应变



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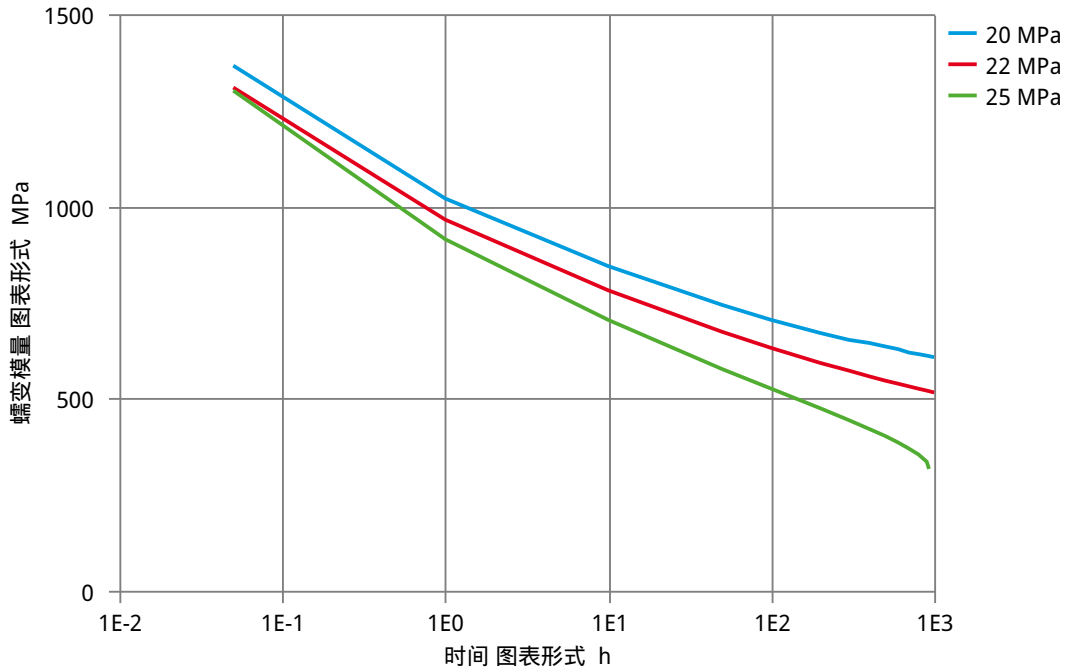
正割模量 - 应变



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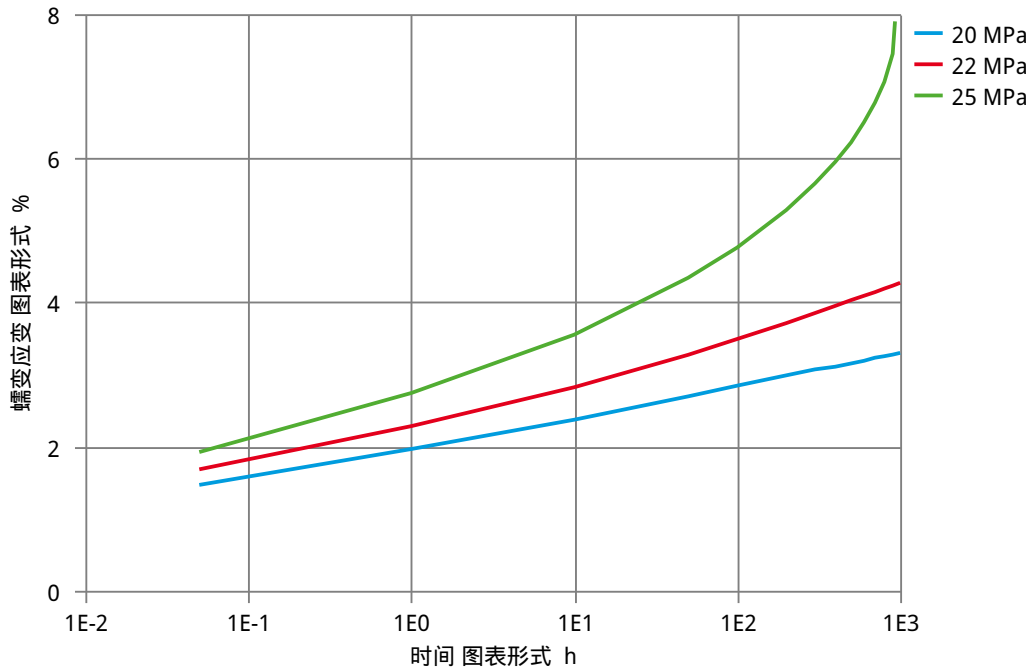
蠕变模量 - 时间 60°C



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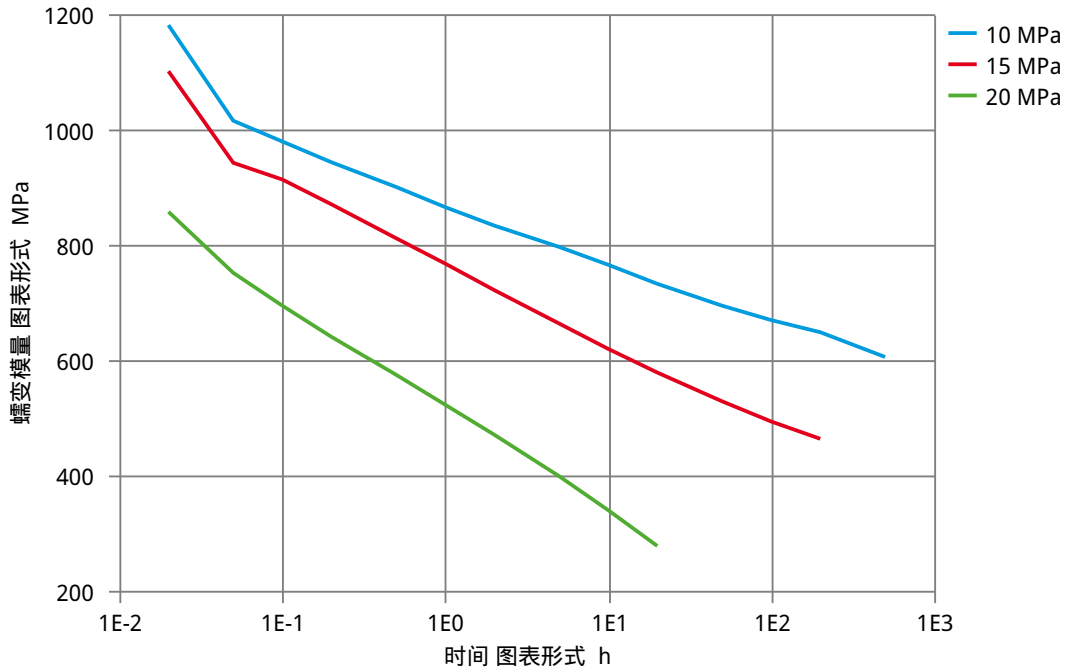
蠕变应变 - 时间 60°C



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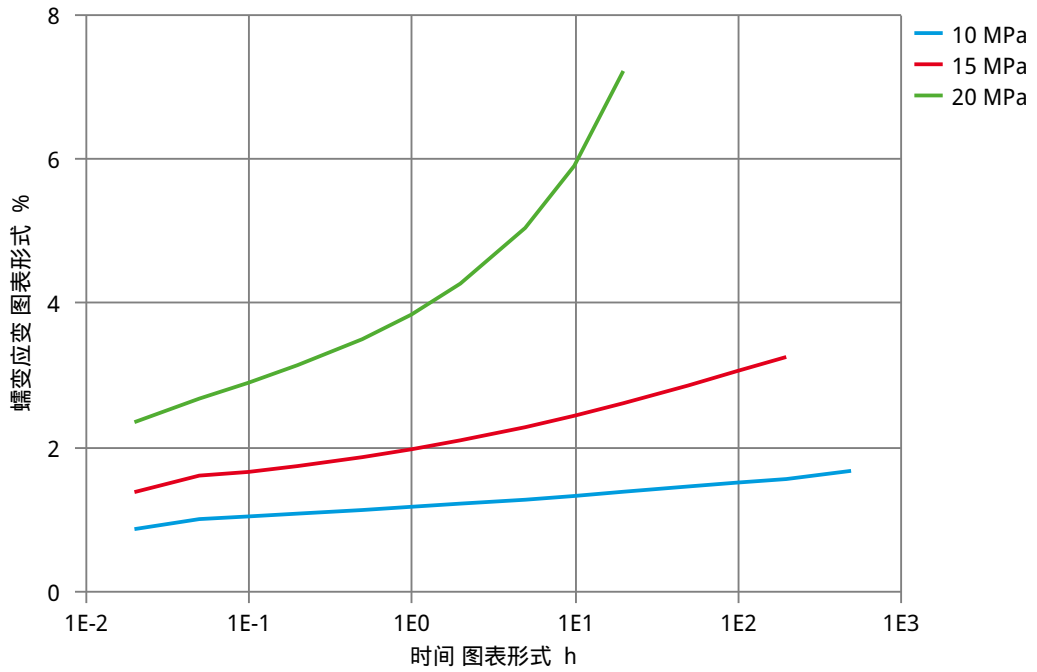
蠕变模量 - 时间 90°C



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蠕变应变 - 时间 90°C



Revised: 2026-05-22 Source: Celanese Materials Database

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