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Chemical abbreviation according to ISO 1043-1: POM
Molding compound ISO 29988- POM-K, M-GNR, 01-002

POM copolymer

Stiff-flowing type for injection molding and extrusion with high impact toughness and good tracking resistance over a high range of temperature; 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: injection molding thick-walled, void-free molded parts; extrusion e.g. for boards and pipes.
FDA = Food and Drug Administration (USA)
FMVSS = Federal Motor Vehicle Safety Standard (USA)

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	2.5	cm^3/10min	ISO 1133
温度	190	°C	
负荷	2.16	kg	
熔体质量流动速率	2.8	g/10min	ISO 1133
熔体质量流动速率，温度	190	°C	
熔体质量流动速率，负荷	2.16	kg	
模塑收缩率, 平行	2.1	%	ISO 294-4, 2577
模塑收缩率, 垂直	1.8	%	ISO 294-4, 2577

机械性能

拉伸模量	2600	MPa	ISO 527-1/-2
拉伸屈服应力, 50mm/min	62	MPa	ISO 527-1/-2
屈服伸长率, 50mm/min	9	%	ISO 527-1/-2
断裂标称应变	32	%	ISO 527-1/-2
弯曲模量	2500	MPa	ISO 178
3.5%应变时的弯曲应力	66	MPa	ISO 178
拉伸蠕变模量, 1h	2300	MPa	ISO 899-1
拉伸蠕变模量, 1000h	1100	MPa	ISO 899-1
简支梁无缺口冲击强度, 23°C	250[P]	kJ/m^2	ISO 179/1eU
简支梁无缺口冲击强度, -30°C	250	kJ/m^2	ISO 179/1eU
简支梁缺口冲击强度, 23°C	8.5	kJ/m^2	ISO 179/1eA
简支梁缺口冲击强度, -30°C	7	kJ/m^2	ISO 179/1eA
球压痕硬度, H 358/30	144	MPa	ISO 2039-1

[P]: Partial Break

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热性能

熔融温度, 10°C/min	165	°C	ISO 11357-1/-3
热变形温度, 1.8 MPa	101	°C	ISO 75-1/-2
线性热膨胀系数, 平行	110	E-6/K	ISO 11359-1/-2
熔体导热系数	0.155	W/(m K)	ISO 22007-2
熔体比热容	2210	J/(kg K)	ISO 22007-4

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	34	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
介质损耗因子, 100Hz	15	E-4	IEC 62631-2-1
介质损耗因子, 1MHz	50	E-4	IEC 62631-2-1
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
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	130	°C

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汽车

OEM	STANDARD	ADDITIONAL INFORMATION
BMW	GS93016	
Bosch	N28 BN22-O004	Black, Made In Frankfurt
Bosch	N28 BN22-O004	Natural, Made In Frankfurt
Bosch	N28 BN22-O004	Red, Made In Frankfurt
Bosch	N28 BN22-O004	Colors
Continental	TST N 055 54.07	
Ford	WSK-M4D635-A1	
General Motors	Natural, Special Parts Approval, See Your CE Account Representative for Further Details.	
Mercedes-Benz	DBL5403	(5403.00)
Mercedes-Benz	DBL5405	(5405.01)
Mercedes-Benz	DBL5405-06-POM-C	'Polyoxymethylene Copolymer'
Mercedes-Benz	DBL5410	(5410.00)
Mercedes-Benz	DBL5420	(5420.00)
Nissan	POM-IVx-1	
Stellantis	MS.50210 / POM-C.2400F.6C.LF	Technical Black;POM 100.65

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
特殊性能	高粘度

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.

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

型材挤出成型

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

板材挤出成型

Preprocessing

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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

吹塑

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 extruders with plasticating screws (20 to 25 D) will fit.

Melt temperature 180-190 °C
Mould-surface temperature 60-100 °C

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加工注意事项

Postprocessing

Conditioning e.g. moisturizing is not necessary.

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.

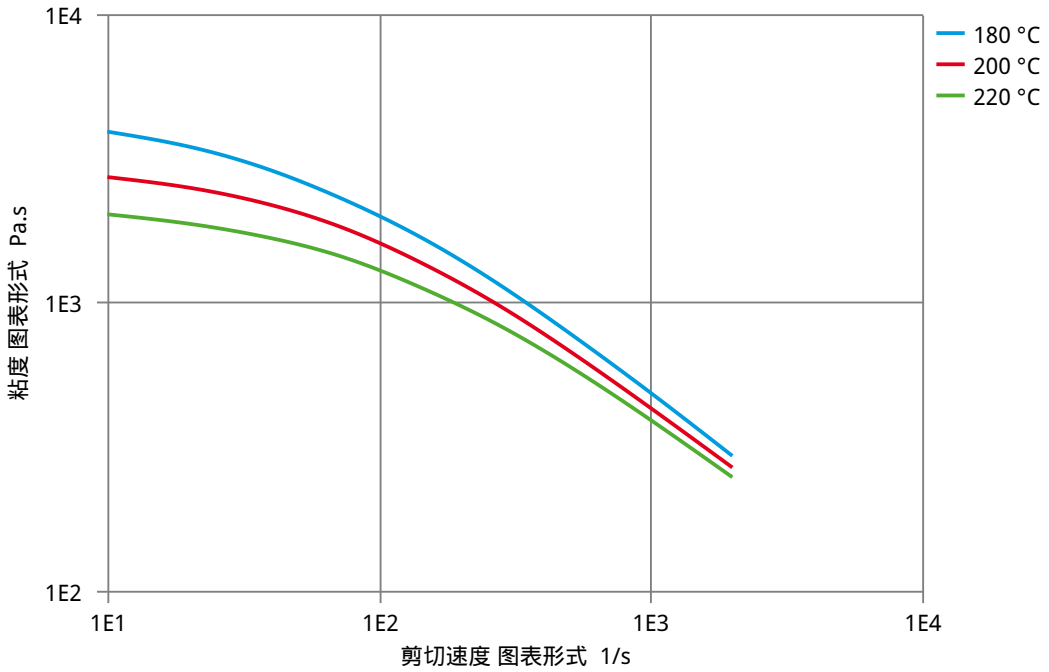
Storage

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

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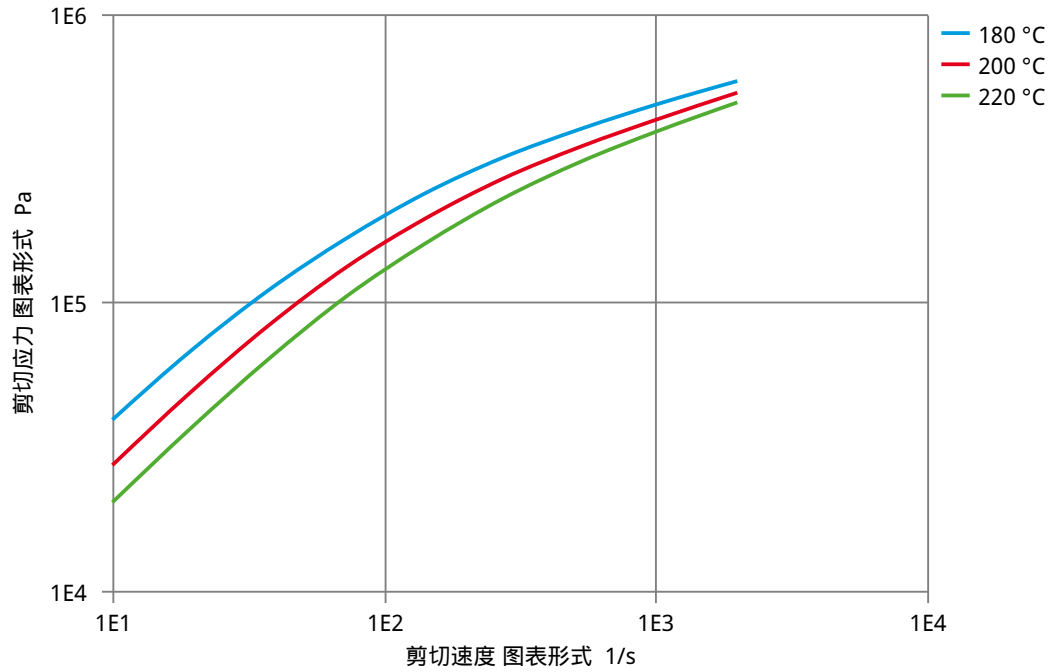
粘度 - 剪切速度



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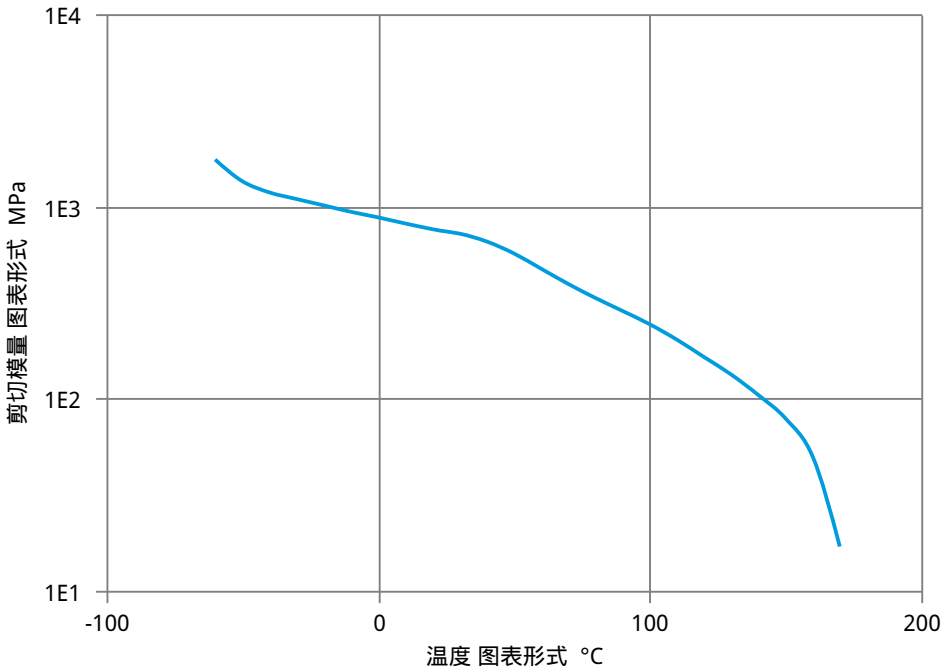
剪切应力 - 剪切速度



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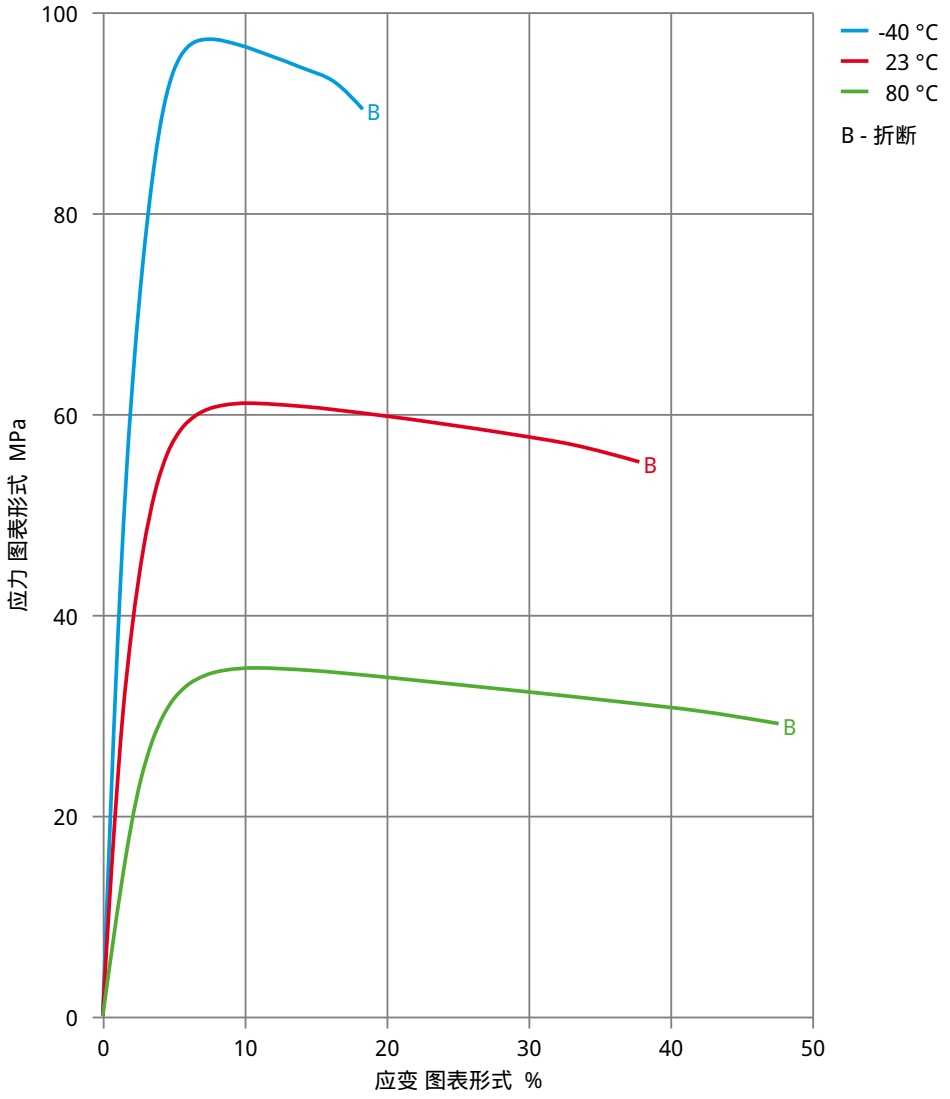
动态剪切模量 - 温度



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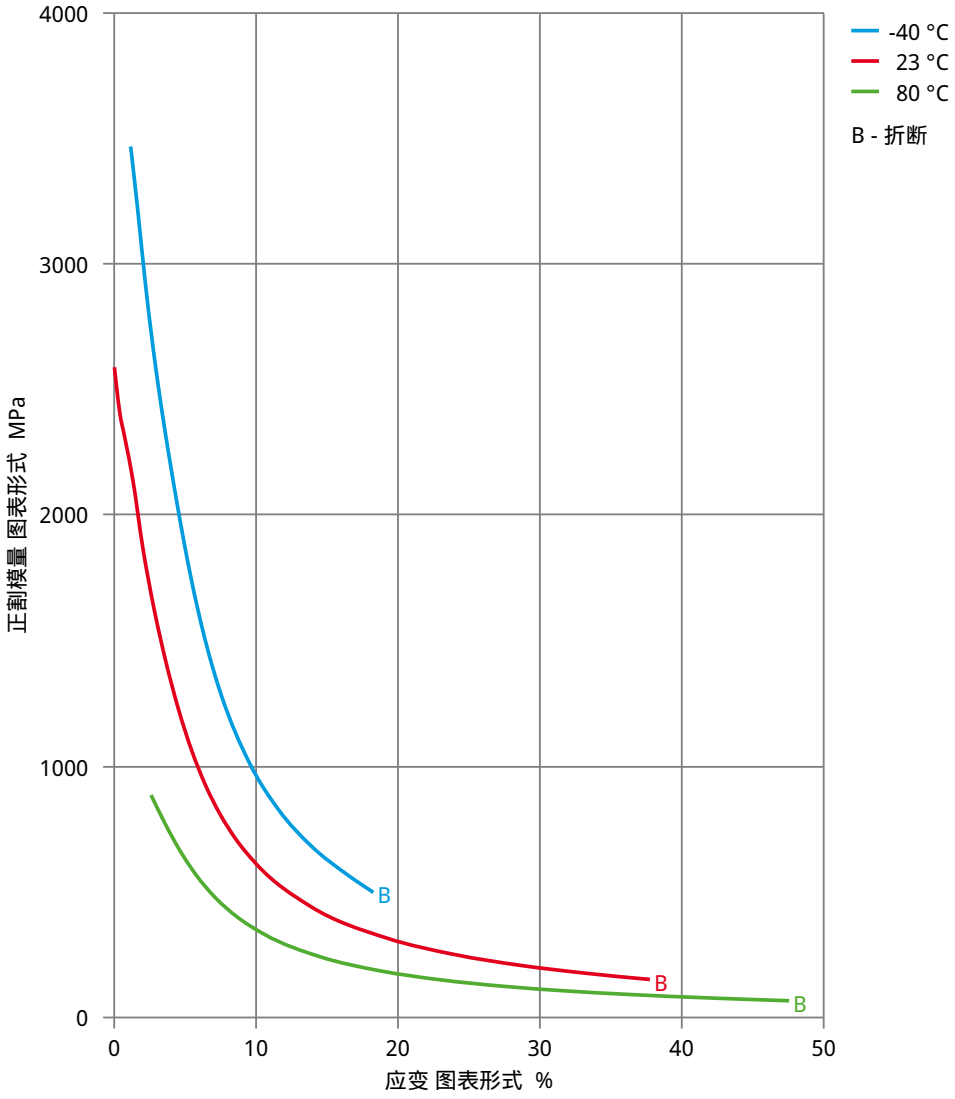
应力 - 应变



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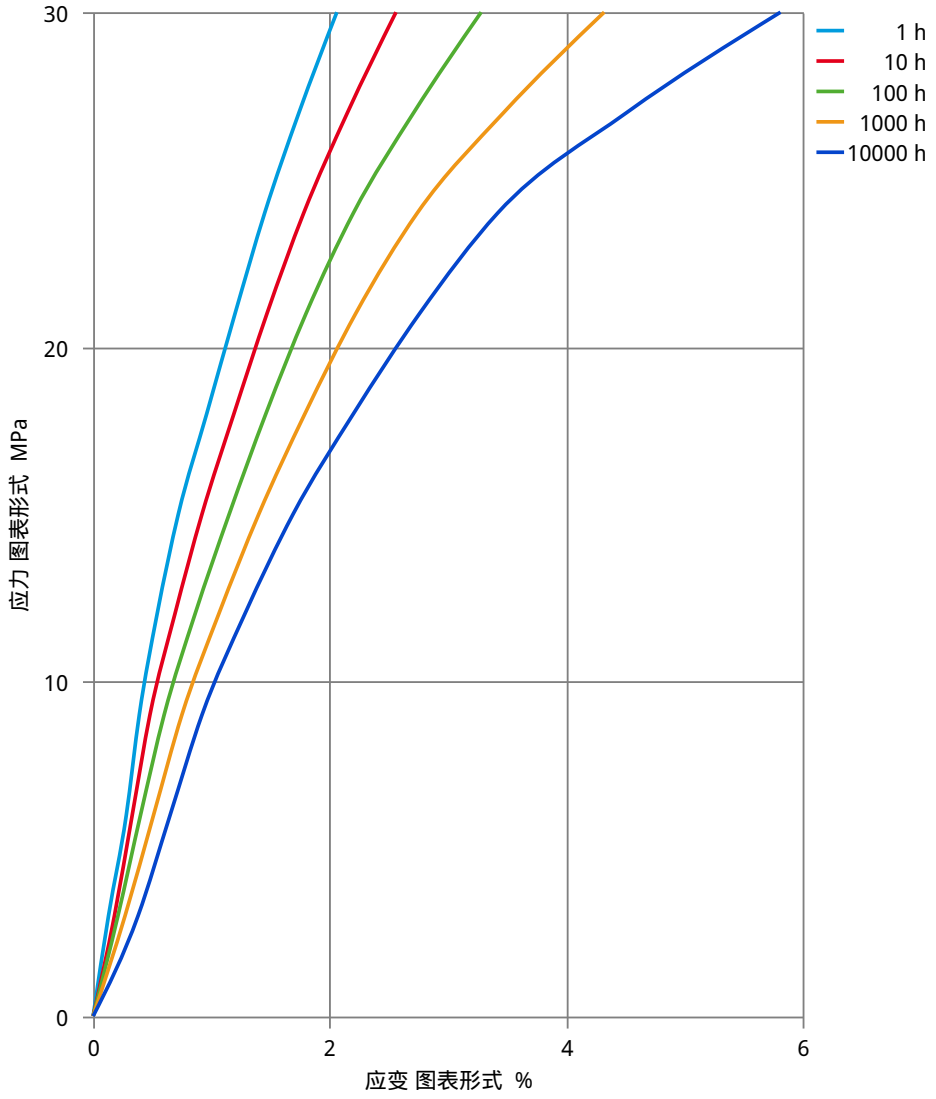
正割模量 - 应变



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应力 - 应变 (等时的) 23°C



Revised: 2026-08-12 Source: Celanese Materials Database

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