



Zytel® PLS93G35DH1 BK549

ZYTEL® PLUS NYLON RESIN

Zytel® 尼龙树脂的共性包括良好的机械和物理性能，例如高机械强度，刚性和韧性之间良好的平衡，良好的高温性能、电性能和阻燃性能，优异的耐磨损和耐化学品性能。另外，Zytel® 尼龙树脂有不同改性和增强规格为特殊加工和终端客户提供定制的性能。Zytel® 尼龙树脂，包括大多数阻燃规格，提供了染色可能性。

Zytel® 尼龙树脂良好的热稳定性通常使正确处理的生产废弃物回收成为可能。如果不能回收使用，杜邦建议的优先选择是在合适的装置中焚烧进行能量回收（基体树脂-31kJ/g）。废弃处理需遵守当地法规。

Zytel® 尼龙树脂通常应用于要求严苛的汽车、家具、家用电器、运动器材和建筑业。

Zytel® PLS93G35DH1 BK549是一种35% 玻纤增强, 热稳定, 尼龙6

总说明

树脂鉴别	PA6-GF35	ISO 1043
制品标识码	>PA6-GF35<	ISO 11469
ISO名称	ISO 16396-PA6,GF35,M1CGHR,S14-120	

流变性能

	dry/cond.		
模塑收缩率, 平行	0.2/-	%	ISO 294-4, 2577
模塑收缩率, 垂直	0.7/-	%	ISO 294-4, 2577

机械性能

	dry/cond.		
拉伸模量	12000/6500	MPa	ISO 527-1/-2
断裂应力	200/120	MPa	ISO 527-1/-2
断裂伸长率	3.5/7	%	ISO 527-1/-2
简支梁无缺口冲击强度, +23°C	100/90	kJ/m ²	ISO 179/1eU
简支梁无缺口冲击强度, -30°C	80/80	kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	15/-	kJ/m ²	ISO 179/1eA
简支梁缺口冲击强度, -30°C	13/-	kJ/m ²	ISO 179/1eA
Poisson's ratio	0.33/0.35	-	

热性能

	dry/cond.		
熔融温度, 10°C/min	224/*	°C	ISO 11357-1/-3
玻璃化转变温度, 10°C/min	70/15	°C	ISO 11357-1/-2
热变形温度, 1.80 MPa	205/*	°C	ISO 75-1/-2
线膨胀系数, 平行	7/*	E-6/K	ISO 11359-1/-2
线膨胀系数, 垂直	100/*	E-6/K	ISO 11359-1/-2
熔体	0.28	W/(m K)	
熔体的比热	2100	J/(kg K)	



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燃烧性能

	dry/cond.		
1.5mm名义厚度时的燃烧性	HB/*	class	IEC 60695-11-10
测试用试样的厚度	1.5/*	mm	IEC 60695-11-10
FMVSS Class	B	-	ISO 3795 (FMVSS 302)
燃烧速率, 厚度 : 1毫米	<80	mm/min	ISO 3795 (FMVSS 302)

电性能

	dry/cond.		
体积电阻率	>1E13/7E11	Ohm.m	IEC 62631-3-1
表面电阻率	*/6E13	Ohm	IEC 62631-3-2
相对漏电起痕指数	550/-	-	IEC 60112

其它性能

	dry/cond.		
吸湿性, 2mm	2/*	%	类似ISO 62
密度	1400/-	kg/m ³	ISO 1183
熔体密度	1240	kg/m ³	

注塑

建议干燥	是
干燥温度	80 °C
干燥时间, 除湿干燥机	2 - 4 h
加工前水分含量	≤ 0.2 %
优良熔体温度	270 °C
注塑 熔体温度	260 °C
注塑 熔体温度	280 °C
螺杆大的切线速度	0.2 m/s
优良模具温度	100 °C
模具温度	70 °C
模具温度	120 °C
保压范围	50 - 100 MPa
保压时间	3 s/mm
喷射温度	150 °C

典型数据

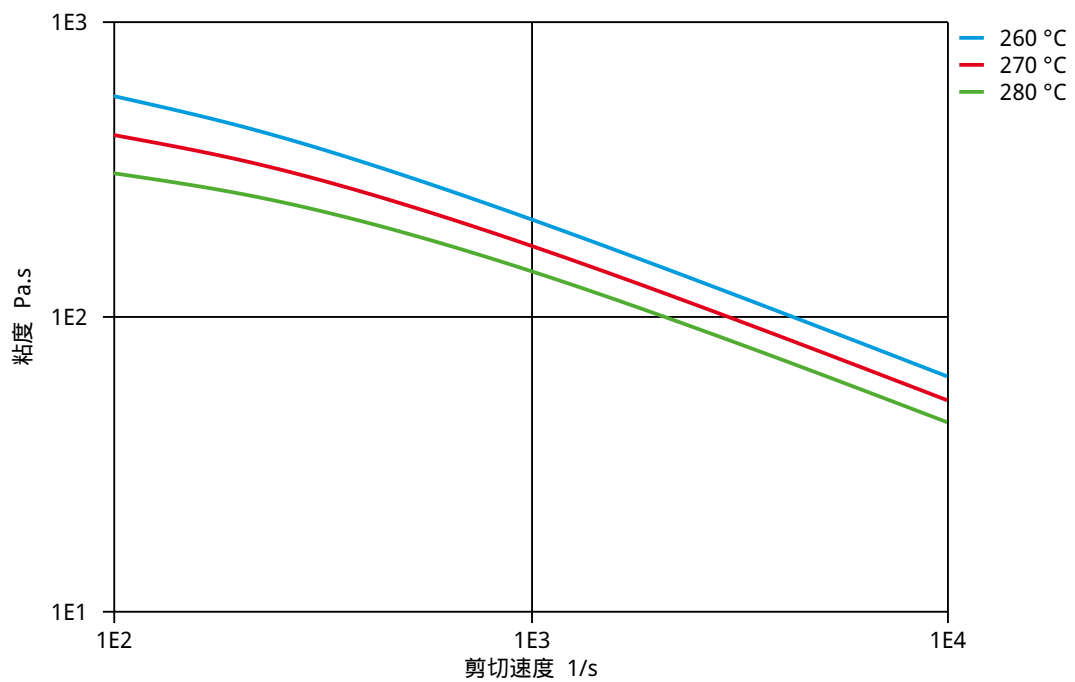
添加剂 脱模助剂



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粘度 - 剪切速度

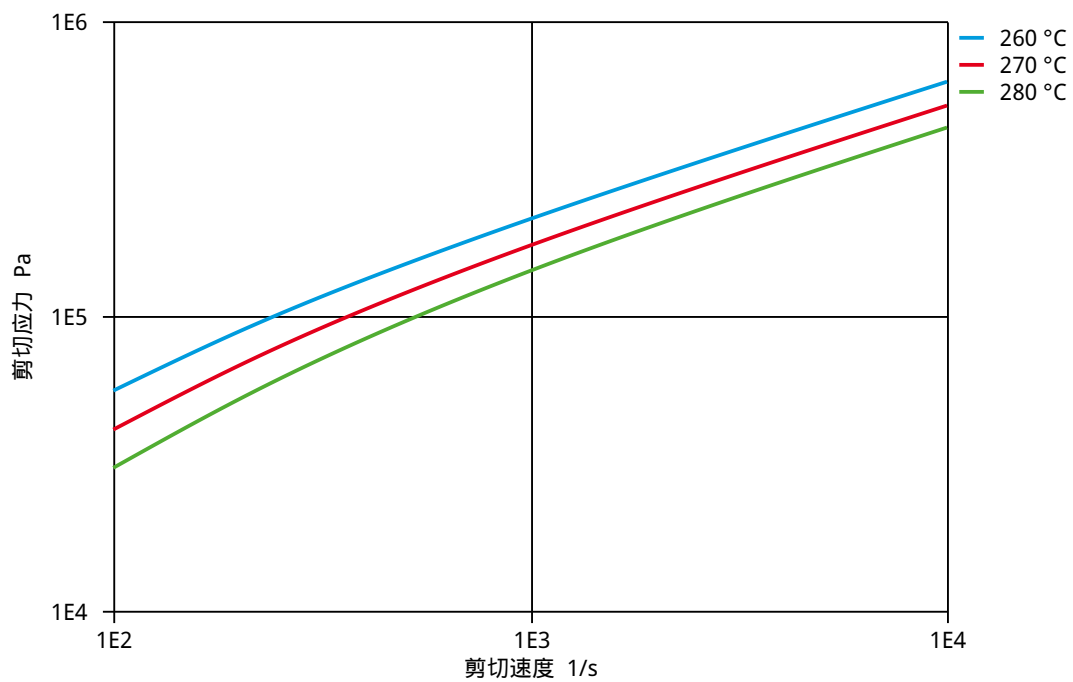




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剪切应力 - 剪切速度

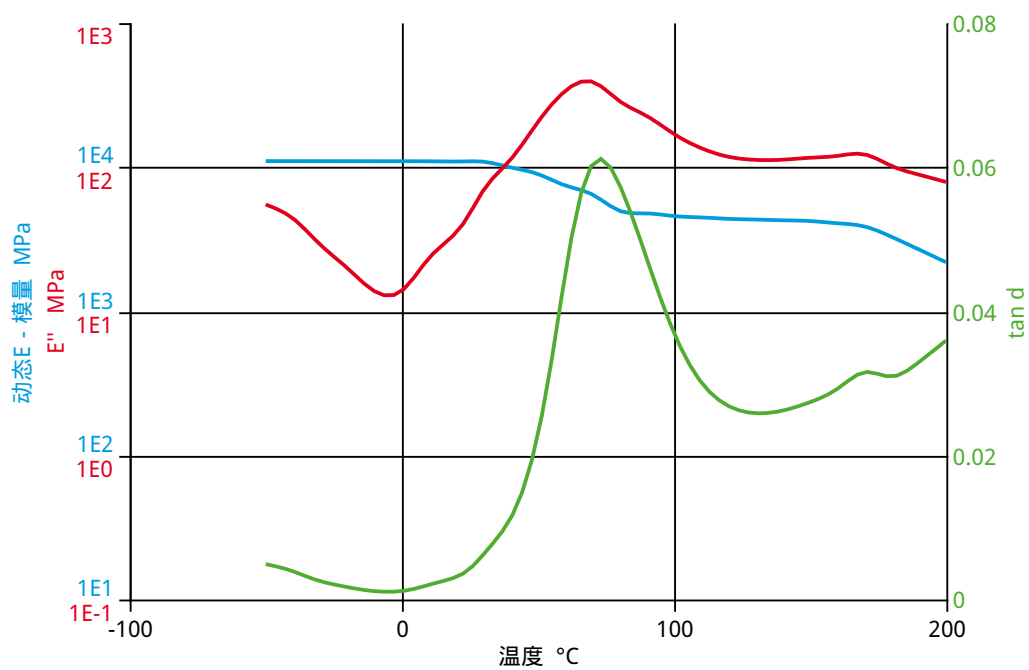




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动态E - 模量 - 温度 (dry)

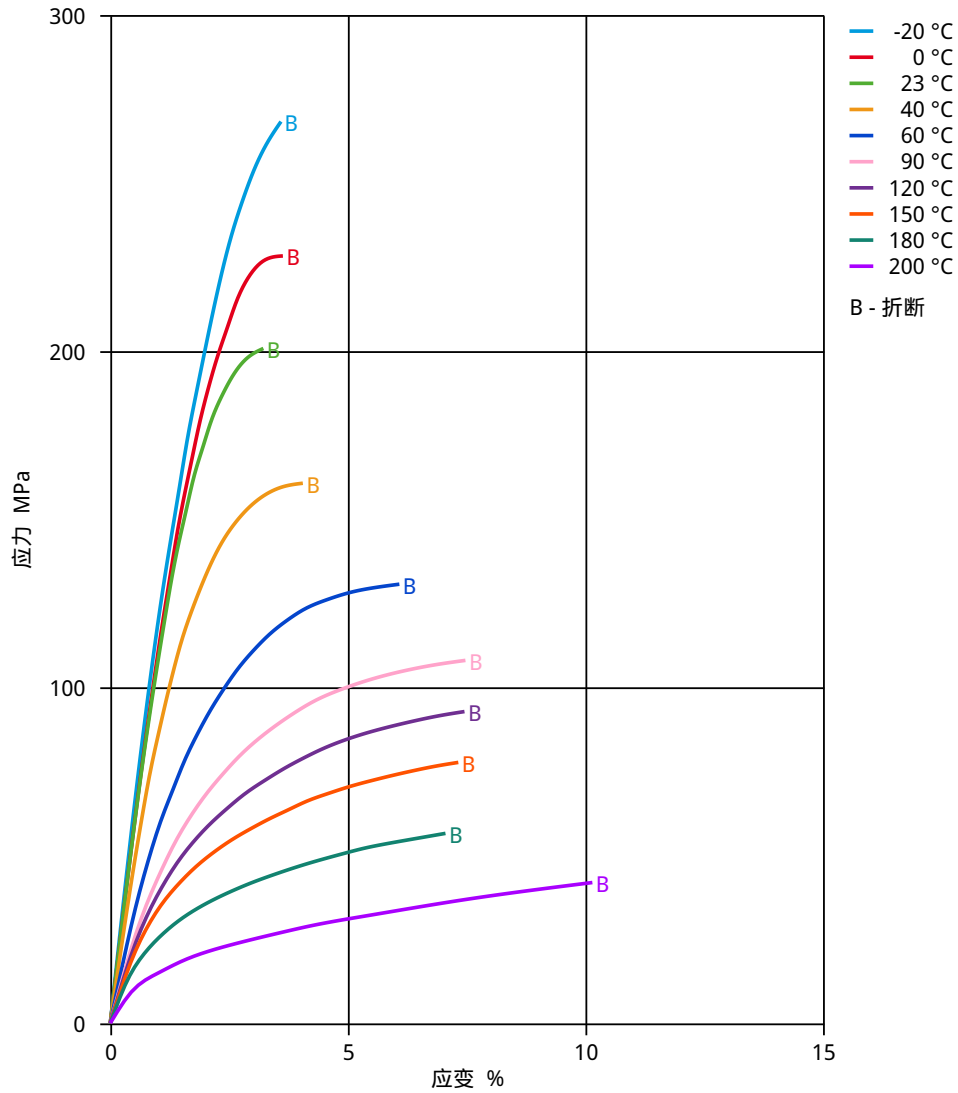




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应力 - 应变. (dry)

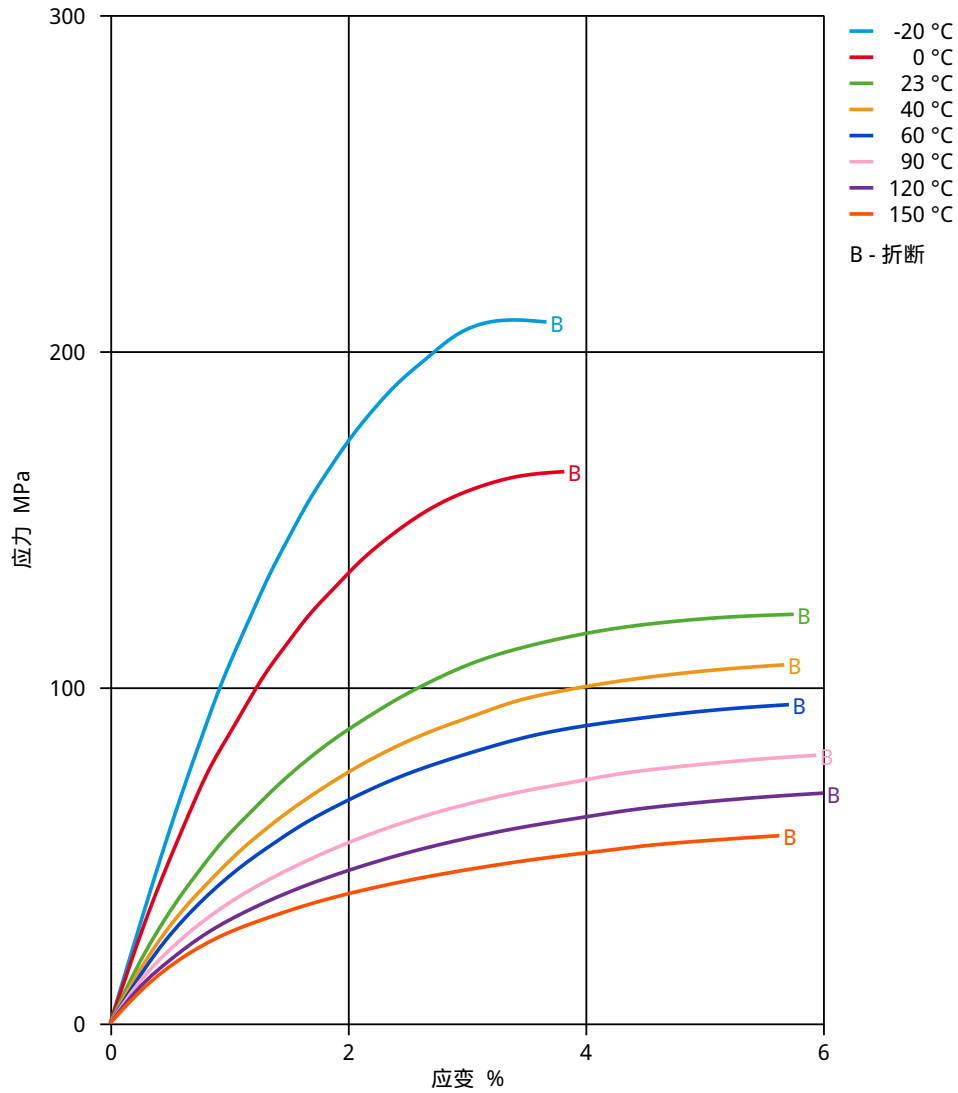




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应力 - 应变. (cond.)

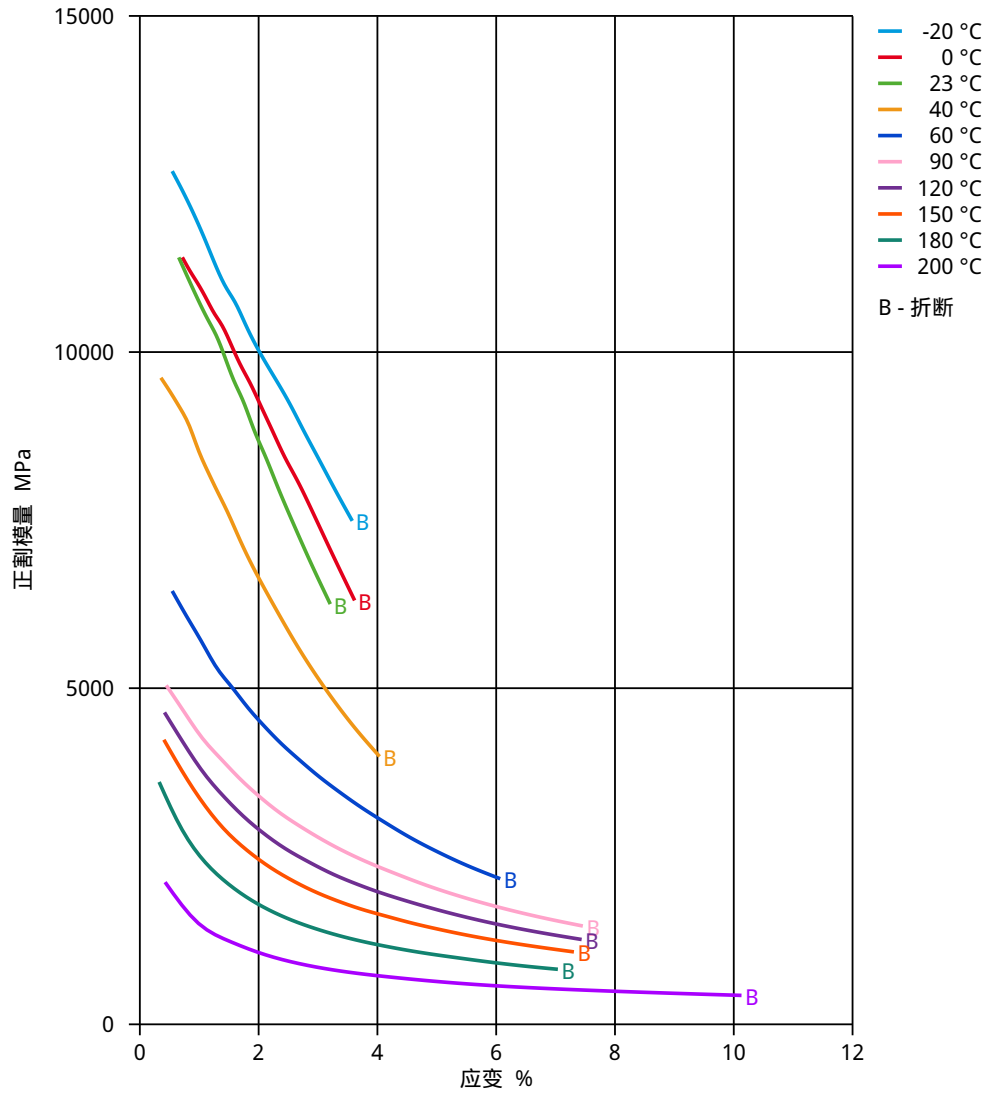




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正割模量 - 应变. (dry)

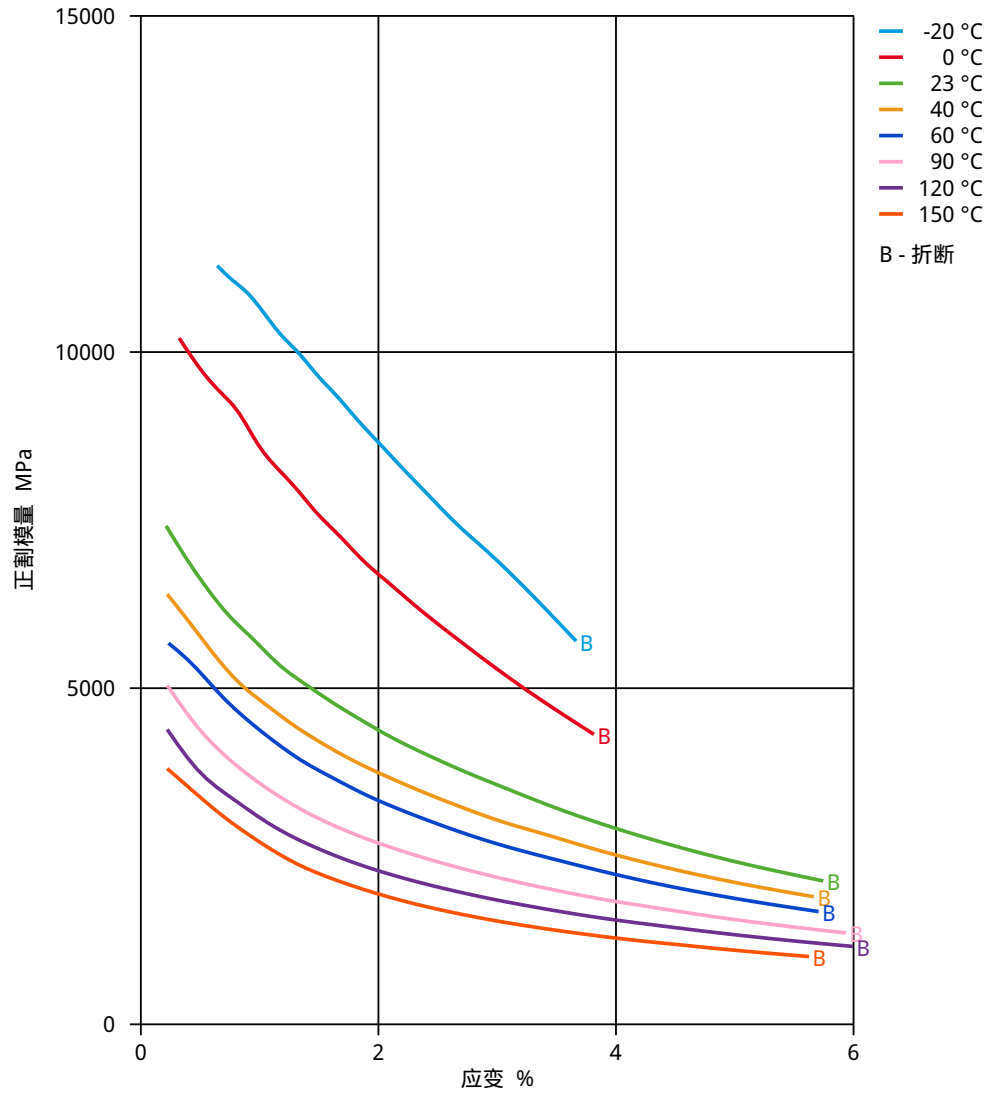




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正割模量 - 应变. (cond.)

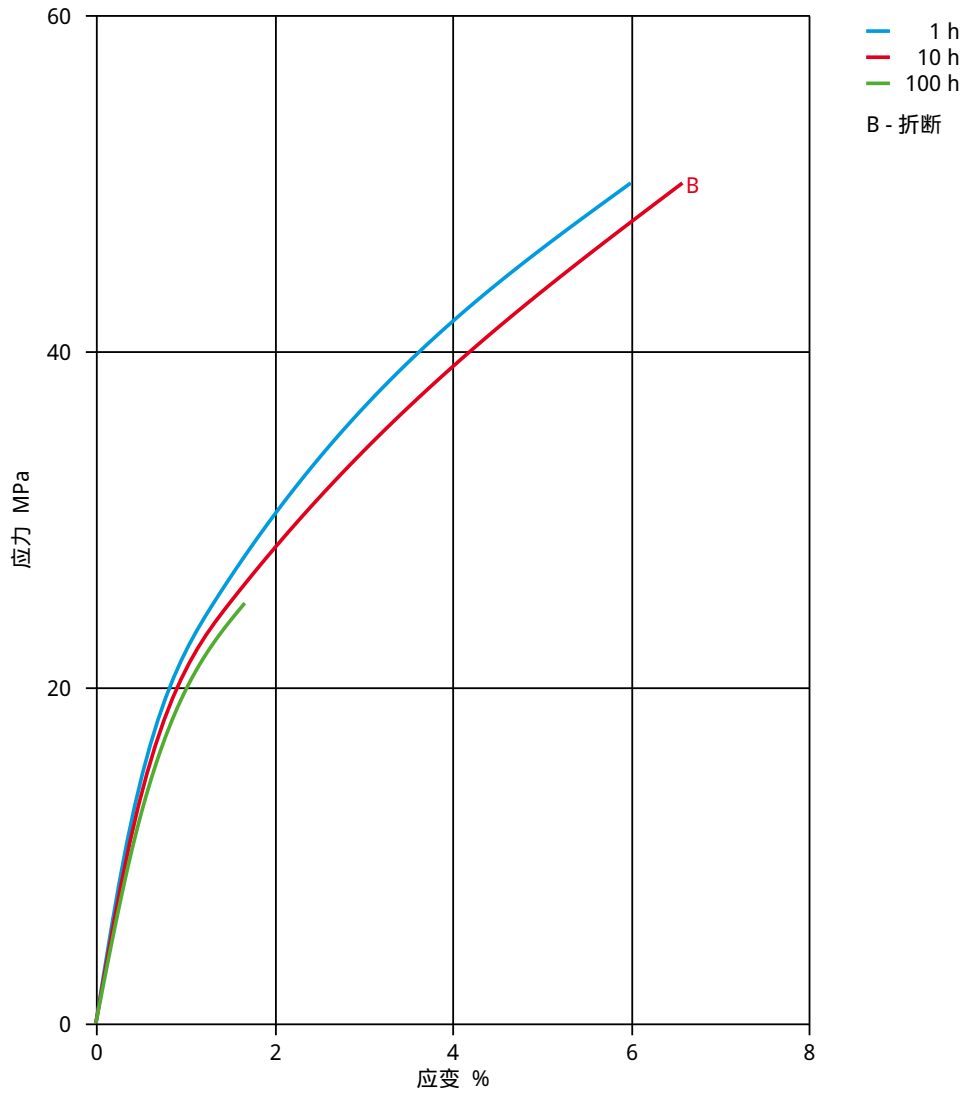




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应力 - 应变(等时的) 180°C (dry)

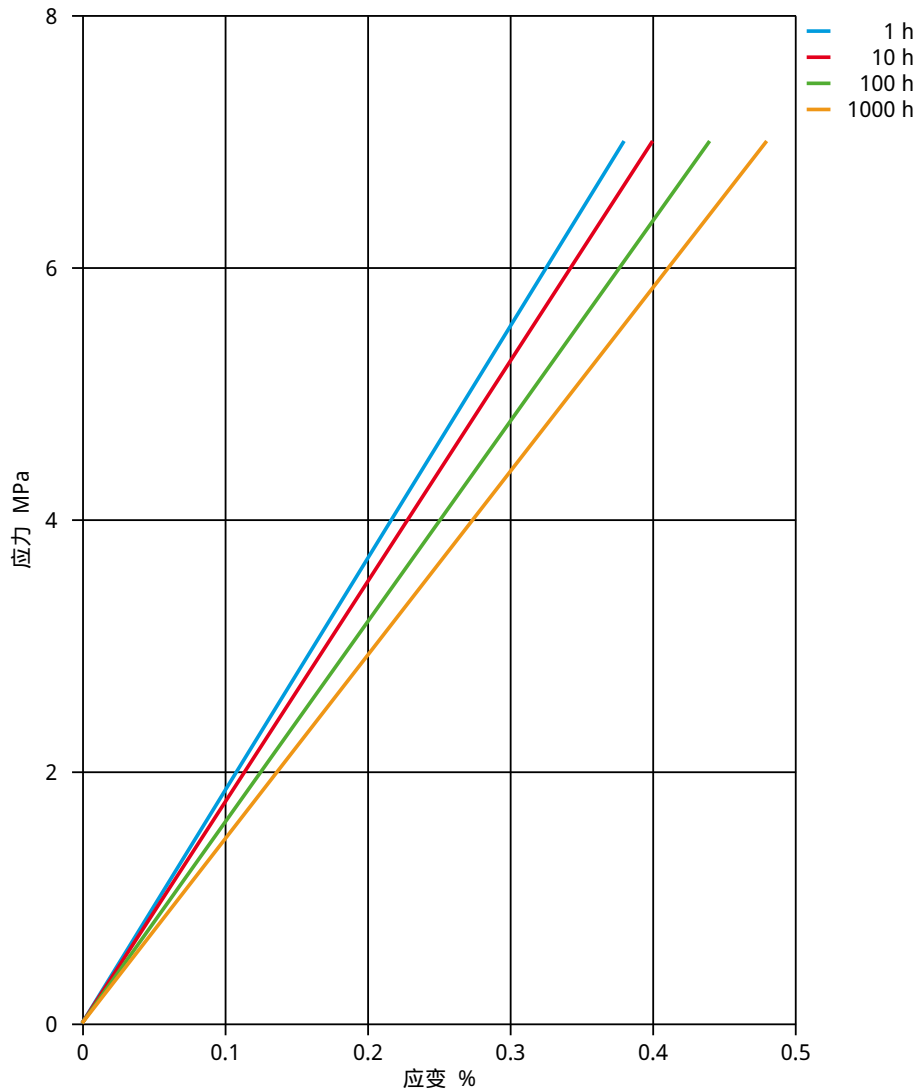




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应力 - 应变(等时的) 200°C (dry)

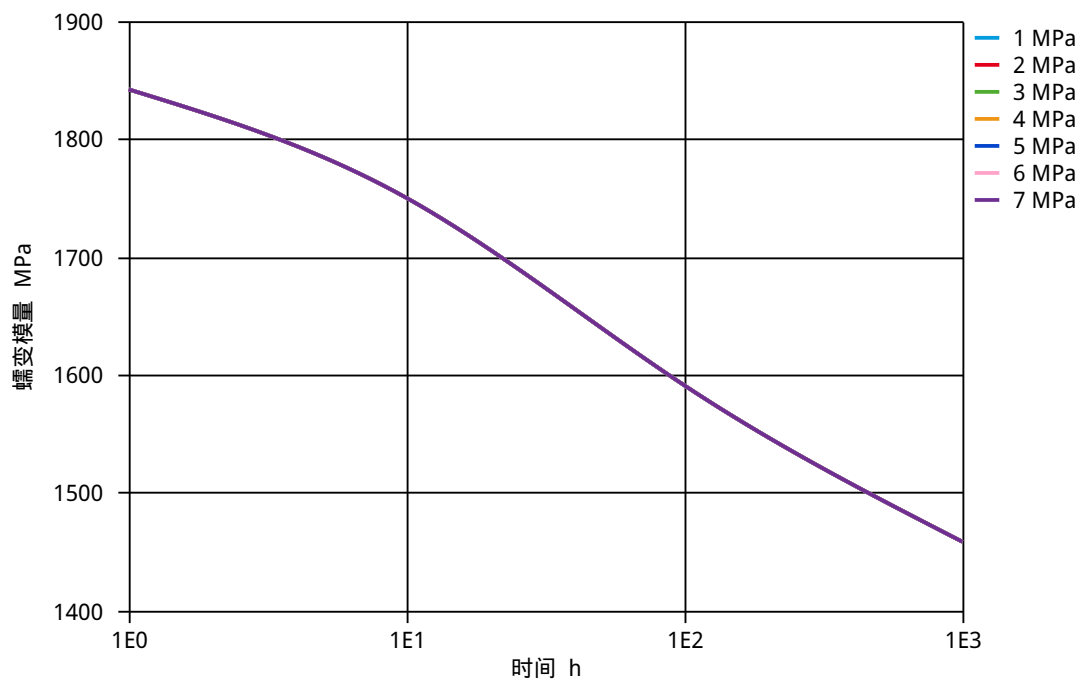




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蠕变模量 - 时间. 200°C (dry)

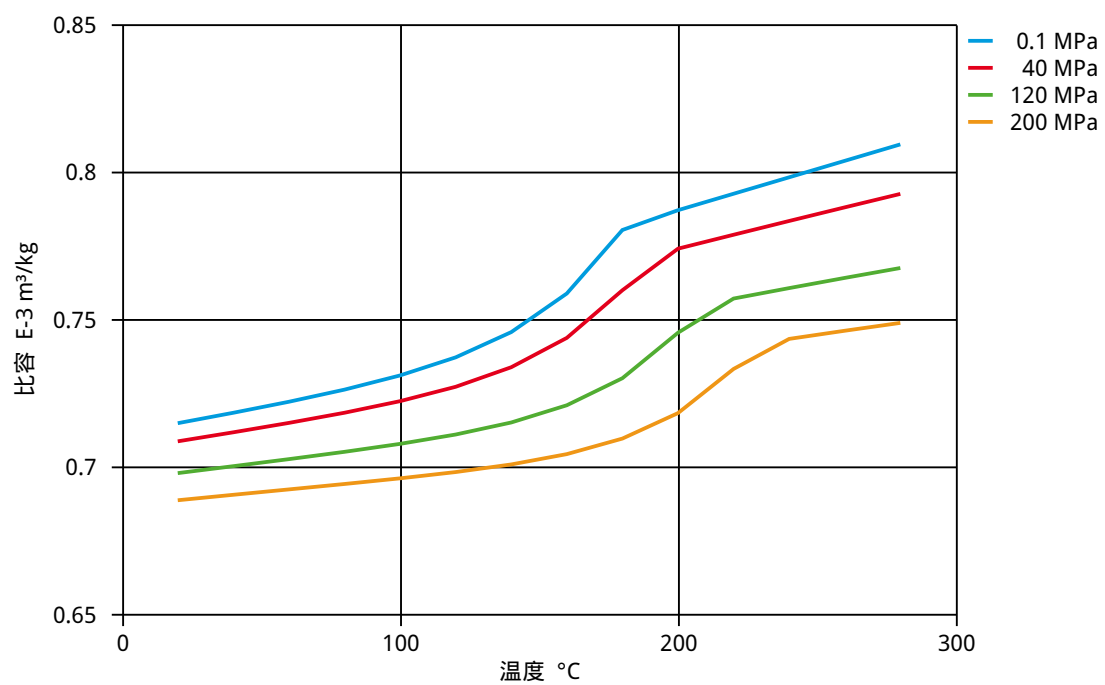




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比容 - 温度(pvT)

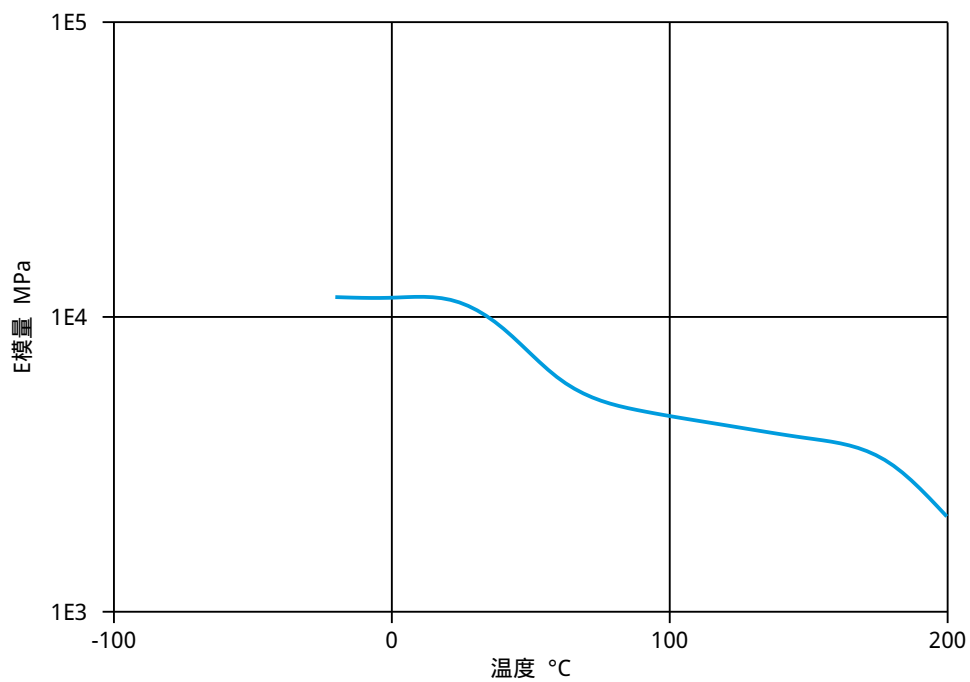




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拉伸模量 - 温度 (dry)

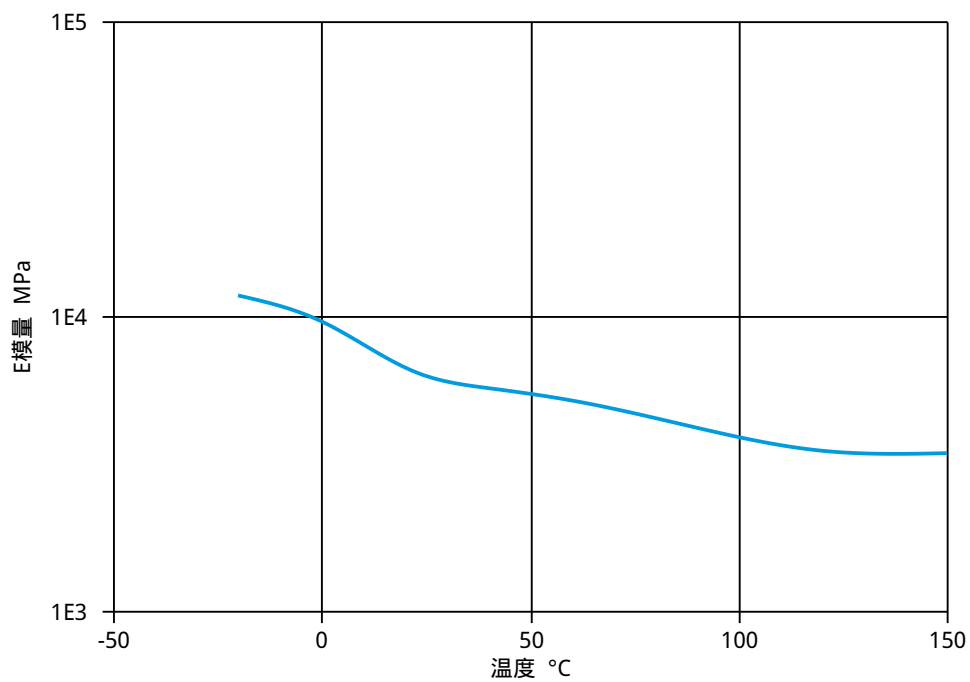




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拉伸模量 - 温度 (cond.)





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矿物油

矿物油

- ✓ SAE 10W40号多效润滑油, 130°C

其它

- ✗ 去离子水, 90°C

Symbols used:

- ✓ possibly resistant
Defined as: Supplier has sufficient indication that contact with chemical can be potentially accepted under the intended use conditions and expected service life. Criteria for assessment have to be indicated (e.g. surface aspect, volume change, property change).
- ✗ not recommended - see explanation
Defined as: Not recommended for general use. However, short-term exposure under certain restricted conditions could be acceptable (e.g. fast cleaning with thorough rinsing, spills, wiping, vapor exposure).

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