



Zytel® BM7300THS BK317

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、运动器材和建筑行业。

Zytel® BM7300THS BK317是一种增韧，热稳定，尼龙6用于吹塑成型

总说明

树脂鉴别	PA6-HI	ISO 1043
制品标识码	>PA6-HI<	ISO 11469
ISO名称	ISO 16396-PA6-I,,M1CG1HR,S14-020	

流变性能

	dry/cond.		
模塑收缩率, 平行	1.1/-	%	ISO 294-4, 2577
模塑收缩率, 垂直	1.1/-	%	ISO 294-4, 2577
熔体粘度	440/*	Pa.s	ISO 11443

机械性能

	dry/cond.		
拉伸模量	2200/600	MPa	ISO 527-1/-2
屈服应力	60/-	MPa	ISO 527-1/-2
屈服伸长率	4.2/-	%	ISO 527-1/-2
名义断裂伸长率	>50/-	%	ISO 527-1/-2
简支梁无缺口冲击强度, +23°C	N/N	kJ/m ²	ISO 179/1eU
简支梁无缺口冲击强度, -30°C	N/N ^[A]	kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	45/150	kJ/m ²	ISO 179/1eA
简支梁缺口冲击强度, -30°C	22/21	kJ/m ²	ISO 179/1eA
简支梁缺口冲击强度, -40°C	15/14	kJ/m ²	ISO 179/1eA
悬臂梁缺口冲击强度, 23°C	38/120	kJ/m ²	ISO 180/1A
悬臂梁缺口冲击强度, -30°C	18/20	kJ/m ²	ISO 180/1A
Poisson's ratio	0.39/0.47	-	

[A]: Assessed

热性能

	dry/cond.		
熔融温度, 10°C/min	220/*	°C	ISO 11357-1/-3
玻璃化转变温度, 10°C/min	60/10	°C	ISO 11357-1/-2
热变形温度, 1.80 MPa	52/*	°C	ISO 75-1/-2
热变形温度, 0.45 MPa	100/*	°C	ISO 75-1/-2



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燃烧性能

FMVSS Class	B -	ISO 3795 (FMVSS 302)
燃烧速率, 厚度: 1毫米	<80 mm/min	ISO 3795 (FMVSS 302)

其它性能

	dry/cond.		
密度	1090/-	kg/m ³	ISO 1183

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	70 °C
模具温度	50 °C
模具温度	100 °C
保压范围	50 - 100 MPa
保压时间	3 s/mm

薄膜挤出成型

干燥温度	80 °C
干燥时间, 除湿干燥机	4 - 6 h
加工前水分含量	≤ 0.06 %
熔体温度范围	235 - 250 °C

吹塑

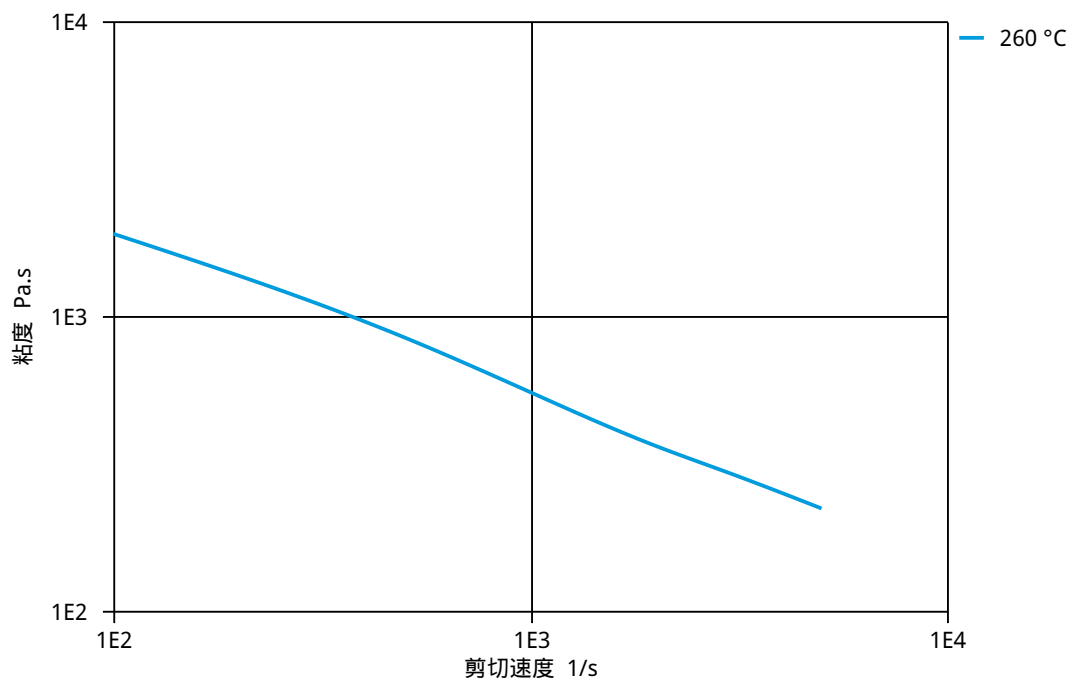
建议干燥	是 -
干燥温度	110 - 120 °C
干燥时间, 除湿干燥机	4 - 6 h
加工前水分含量	≤ 0.03 %
优良熔体温度	260 °C
熔体温度范围	255 - 265 °C
优良模具温度	90 °C
模具温度范围	80 - 110 °C



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粘度 - 剪切速度

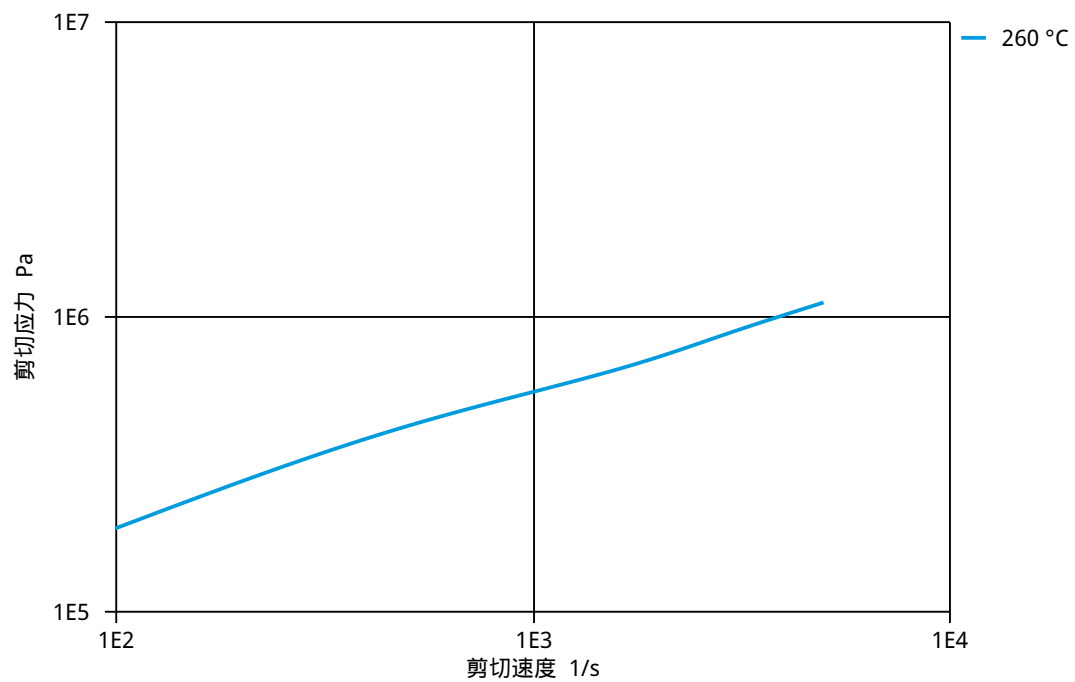




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剪切应力 - 剪切速度

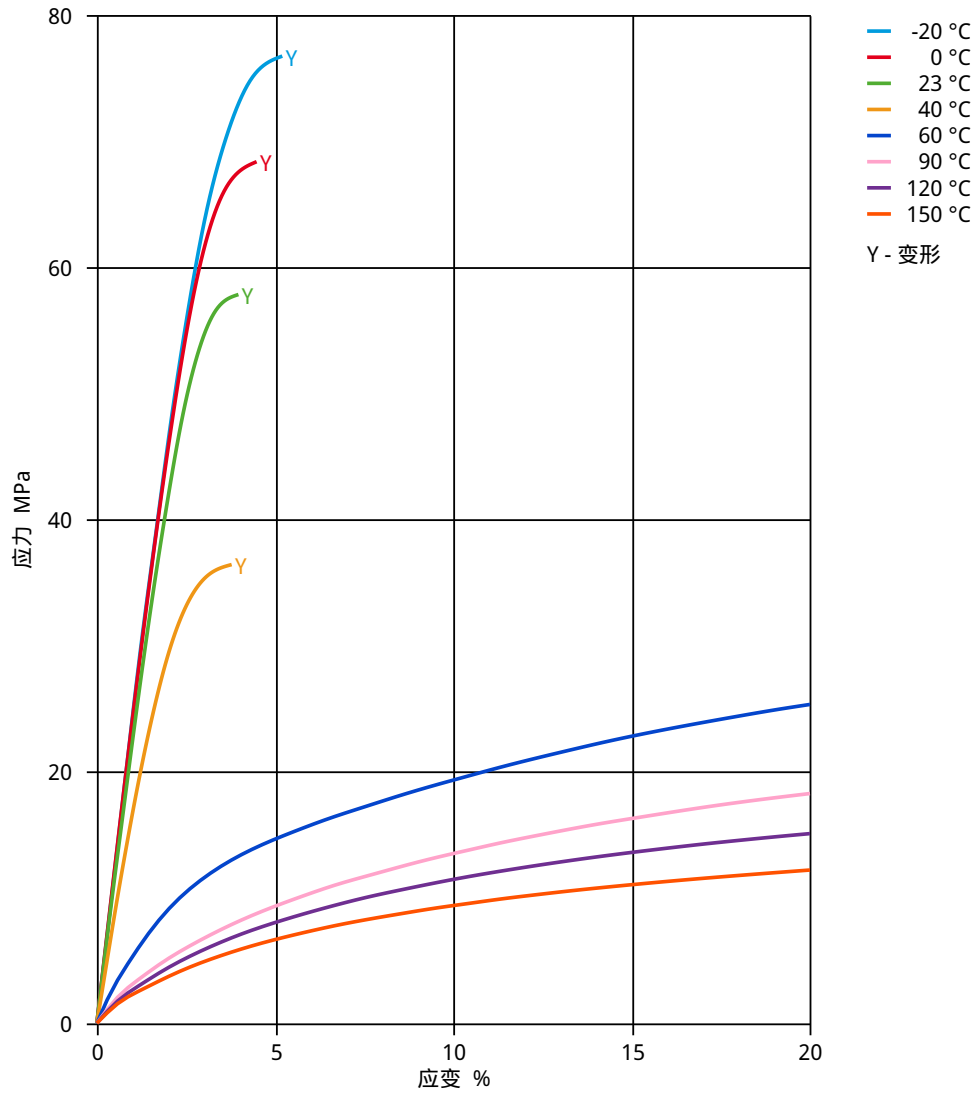




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应力 - 应变. (dry)

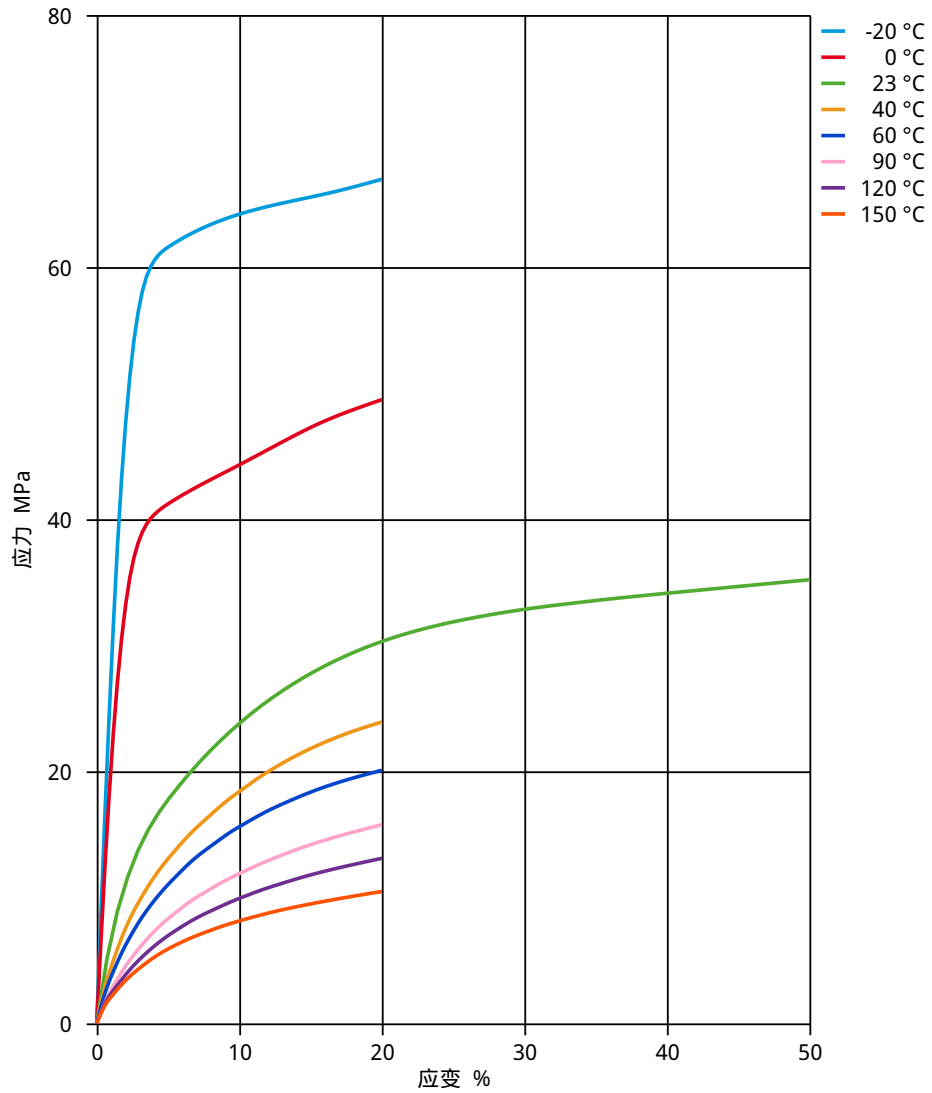




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NYLON RESIN

应力 - 应变. (cond.)

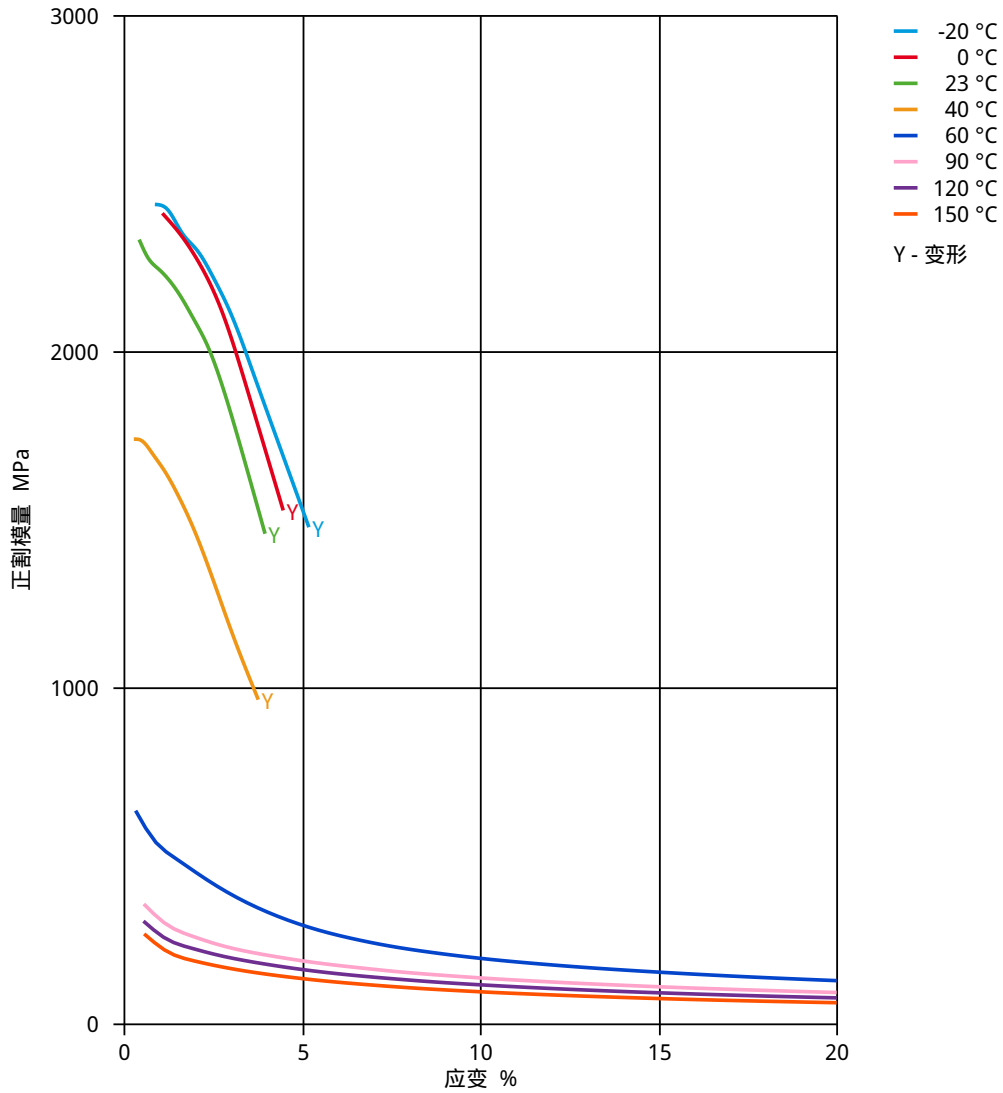




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正割模量 - 应变. (dry)

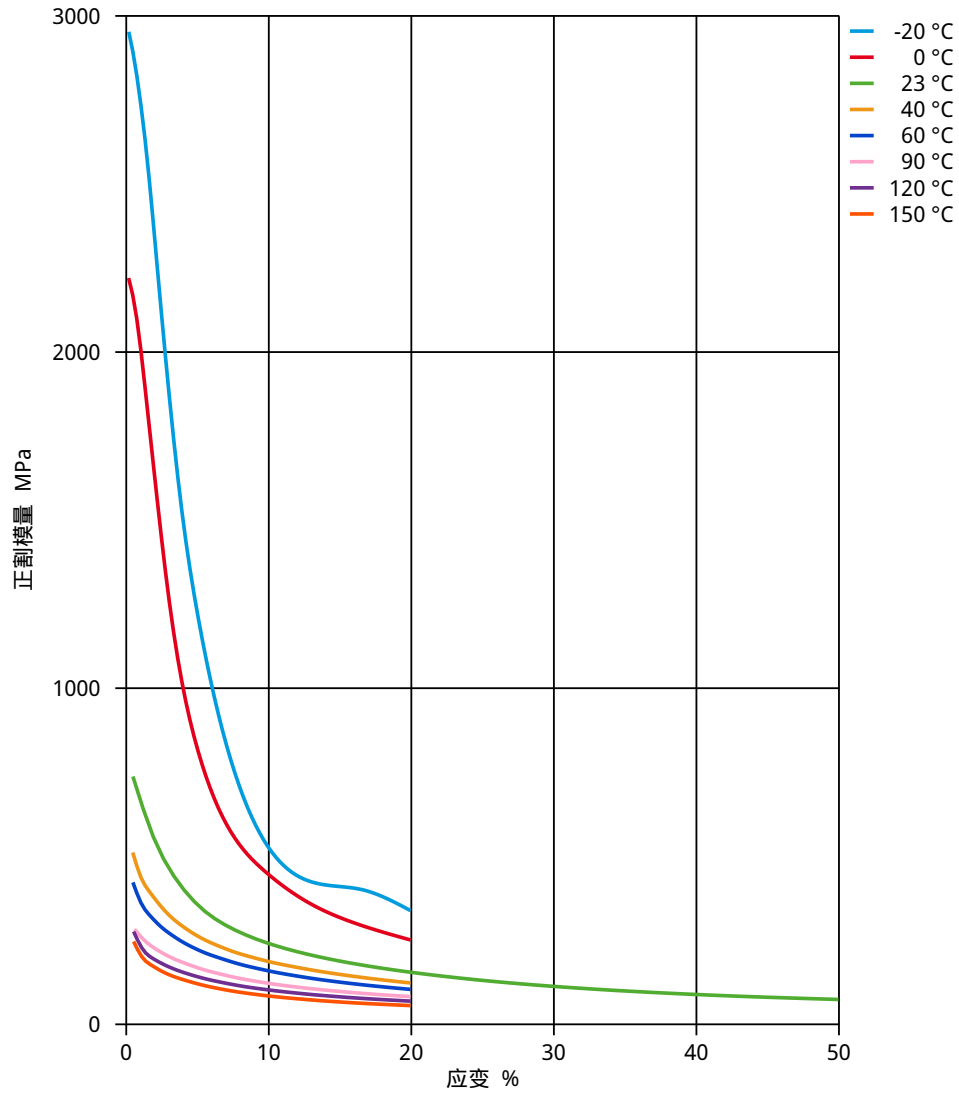




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NYLON RESIN

正割模量 - 应变. (cond.)

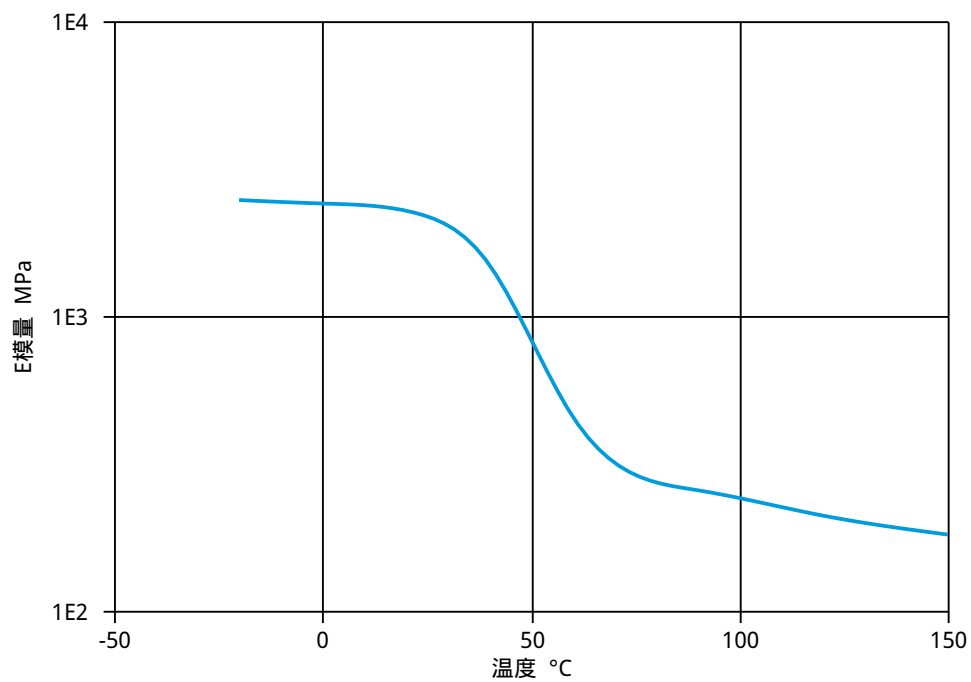




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拉伸模量 - 温度 (dry)

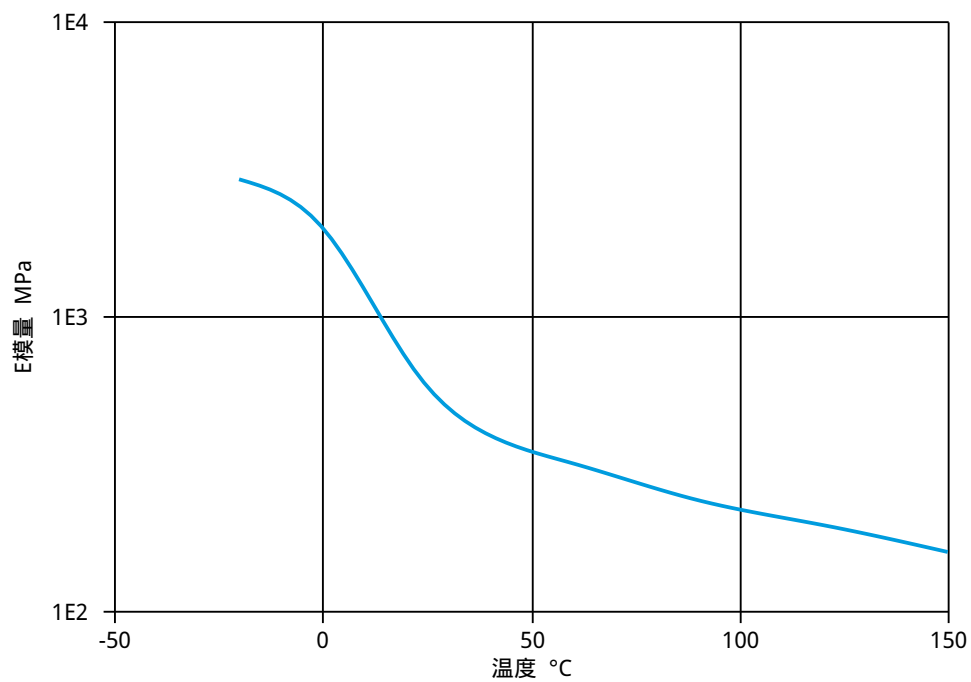




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拉伸模量 - 温度 (cond.)





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耐化学性

醇类

- ✓ 乙醇, 23°C

碳氢化合物

- ✓ 甲苯, 23°C
- ✓ 异辛烷, 23°C

矿物油

- ✓ SAE 10W40号多效润滑油, 23°C
- ✓ SAE 10W40号多效润滑油, 130°C
- ✓ 滑油OS206 304 Ref.Eng.Oil, ISP, 135°C

标准燃油

- ✓ ISO 1817 燃油3号, 60°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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