



Zytel® 73G35HSL BK262

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® 73G35HSL BK262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,S14-110	

流变性能

	dry/cond.		
粘数.	143/*	cm ³ /g	ISO 307, 1157, 1628
模塑收缩率, 平行	0.1/-	%	ISO 294-4, 2577
模塑收缩率, 垂直	0.6/-	%	ISO 294-4, 2577

机械性能

	dry/cond.		
拉伸模量	11000/6500	MPa	ISO 527-1/-2
断裂应力	190/120	MPa	ISO 527-1/-2
断裂伸长率	3.2/6	%	ISO 527-1/-2
弯曲模量	9500/6000	MPa	ISO 178
弯曲强度	280/150	MPa	ISO 178
拉伸蠕变模量, 1h	*/6000 ^[DS]	MPa	ISO 899-1
拉伸蠕变模量, 1000h	*/5000 ^[DS]	MPa	ISO 899-1
简支梁无缺口冲击强度, +23°C	85/90	kJ/m ²	ISO 179/1eU
简支梁无缺口冲击强度, -30°C	90/90	kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	14/22	kJ/m ²	ISO 179/1eA
简支梁缺口冲击强度, -30°C	10/10	kJ/m ²	ISO 179/1eA
简支梁缺口冲击强度, -40°C	11/12	kJ/m ²	ISO 179/1eA
冲孔功, +23°C	3/6	J	ISO 6603-2
悬臂梁缺口冲击强度, 23°C	13/20	kJ/m ²	ISO 180/1A
Poisson's ratio	0.34/0.35	-	

[DS]: Derived from similar grade

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热性能

	dry/cond.		
熔融温度, 10°C/min	221/*	°C	ISO 11357-1/-3
玻璃化转变温度, 10°C/min	55/15	°C	ISO 11357-1/-2
热变形温度, 1.80 MPa	208/*	°C	ISO 75-1/-2
热变形温度, 0.45 MPa	220/*	°C	ISO 75-1/-2
维卡软化温度, 50°C/h 50N	215/*	°C	ISO 306
线膨胀系数, 平行	19/*	E-6/K	ISO 11359-1/-2
线膨胀系数, 垂直	100/*	E-6/K	ISO 11359-1/-2
相对温度指数, 电气性能, 1.5mm	65	°C	UL 746B
相对温度指数, 冲击, 1.5mm	65	°C	UL 746B
相对温度指数, 强度, 1.5mm	65/*	°C	UL 746B

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
UL注册	yes/*	-	UL 94
FMVSS Class	B	-	ISO 3795 (FMVSS 302)
燃烧速率, 厚度: 1毫米	24	mm/min	ISO 3795 (FMVSS 302)

其它性能

	dry/cond.		
吸湿性, 2mm	2.1/*	%	类似ISO 62
吸水性, 2mm	5.8/*	%	类似ISO 62
密度	1410/-	kg/m ³	ISO 1183
吸水性, 浸泡 24小时	1/* ^[1]	%	类似ISO 62

[1]: wall thickness 3mm

注塑

建议干燥	是
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



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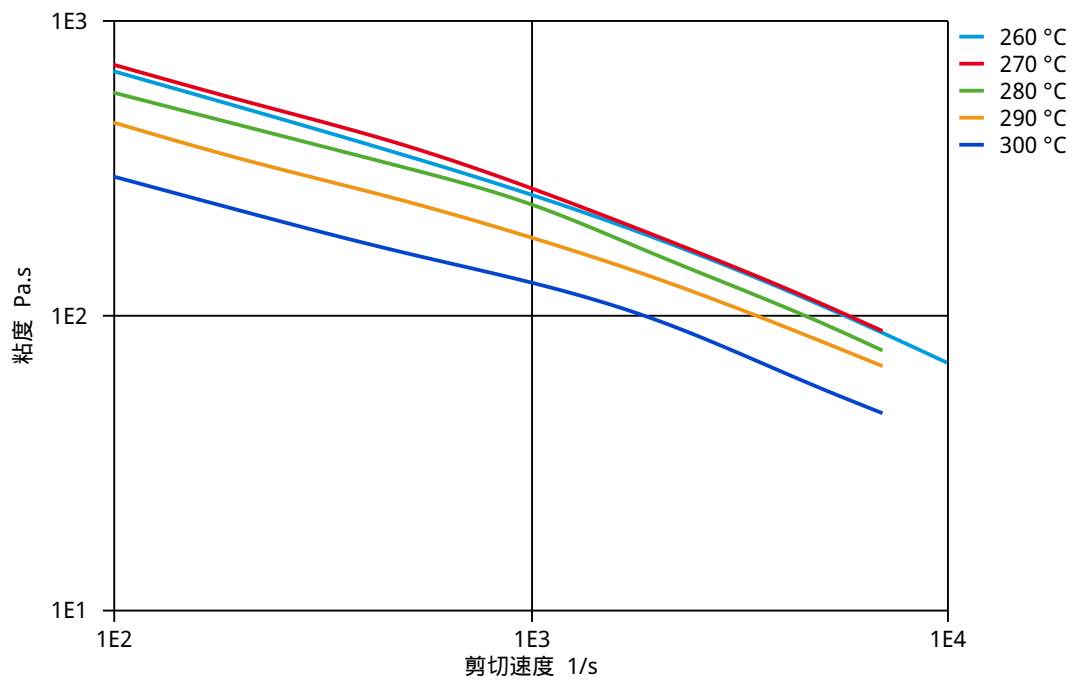
NYLON RESIN

典型数据

添加剂

脱模助剂

粘度 - 剪切速度

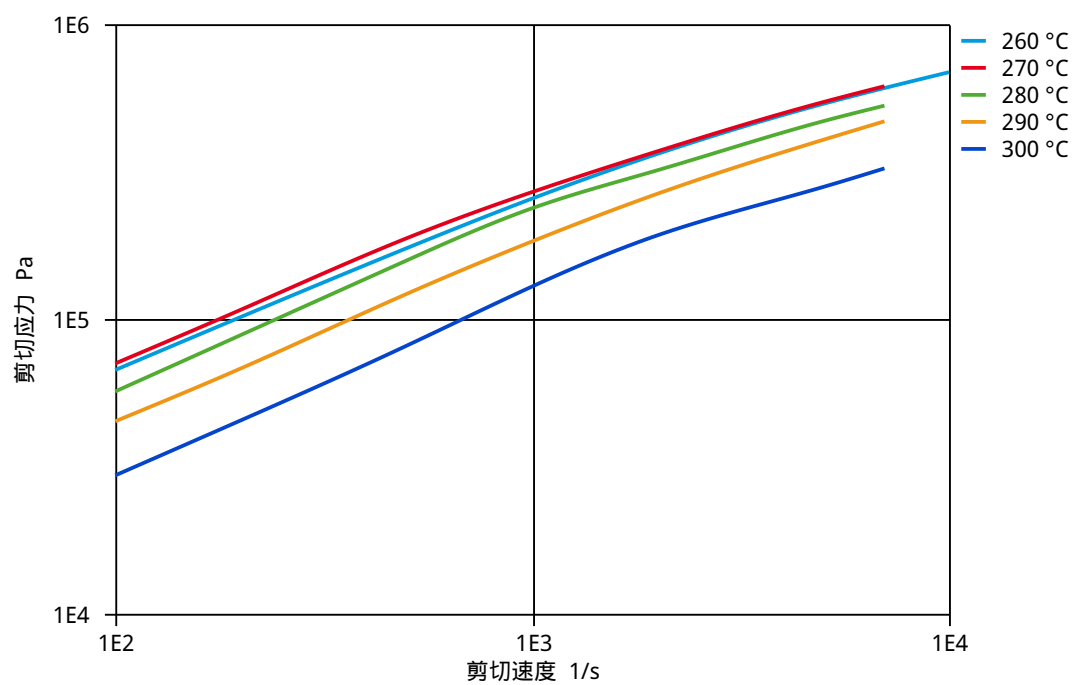




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剪切应力 - 剪切速度

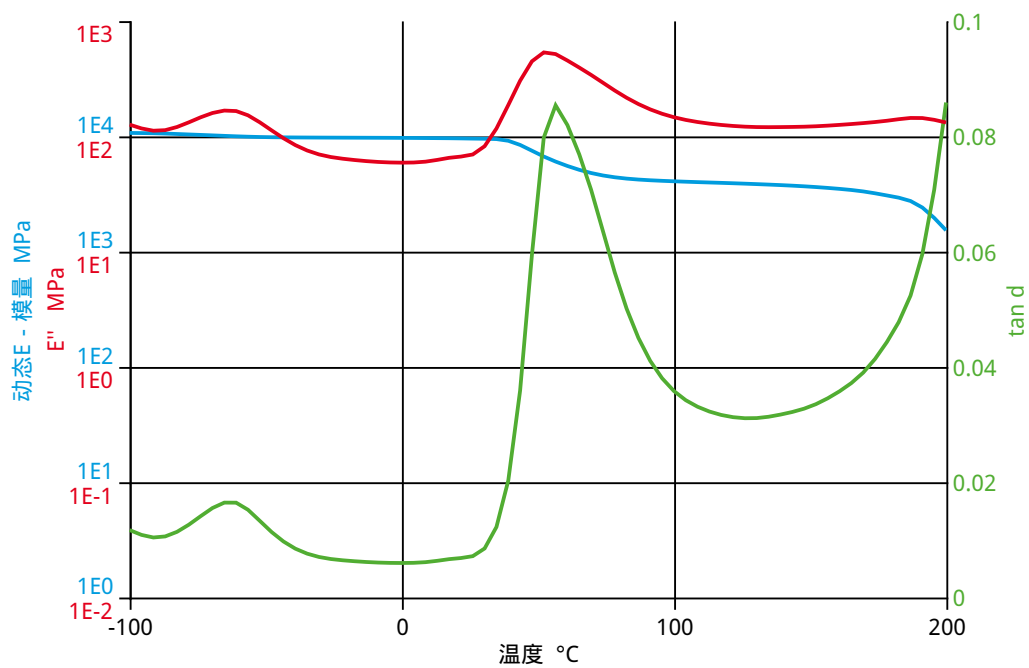




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动态E - 模量 - 温度 (dry)

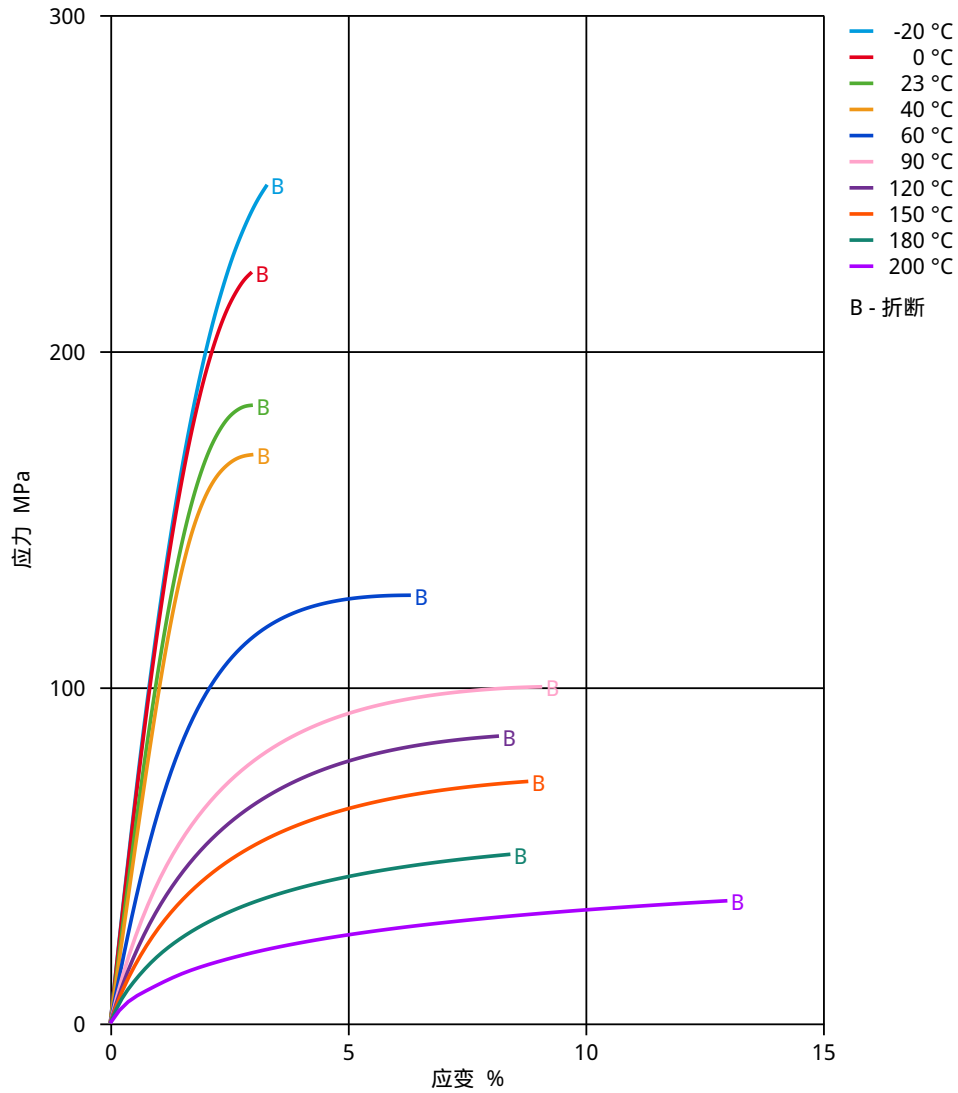




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NYLON RESIN

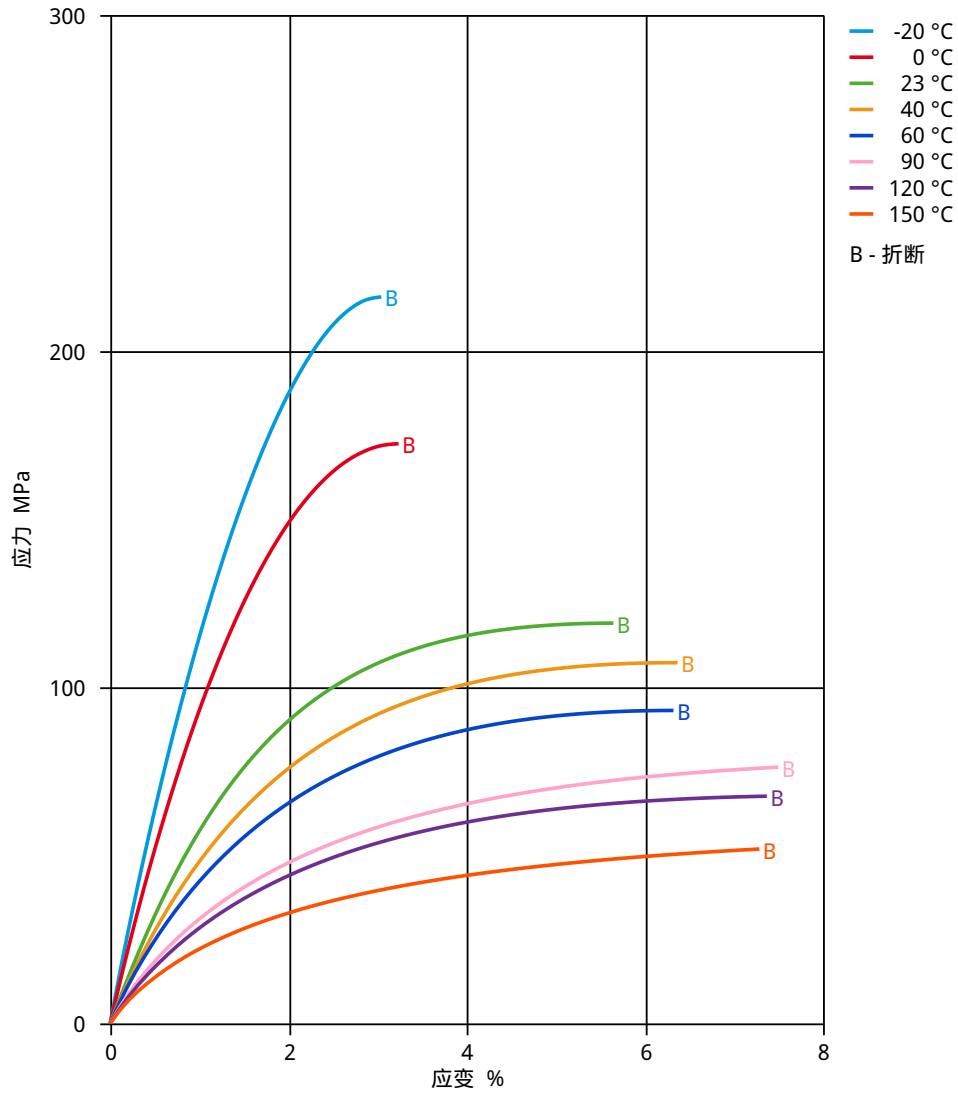
应力 - 应变. (dry)



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应力 - 应变. (cond.)

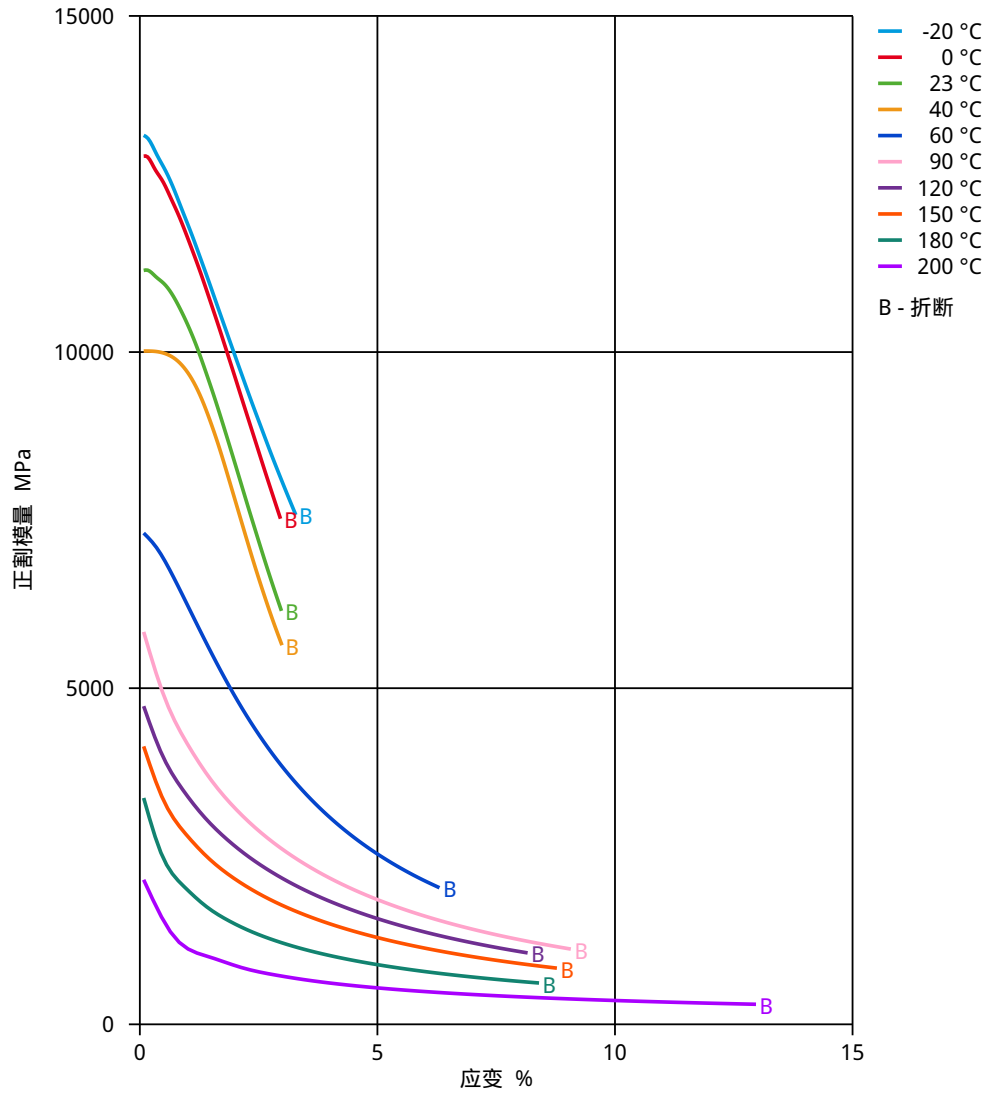




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NYLON RESIN

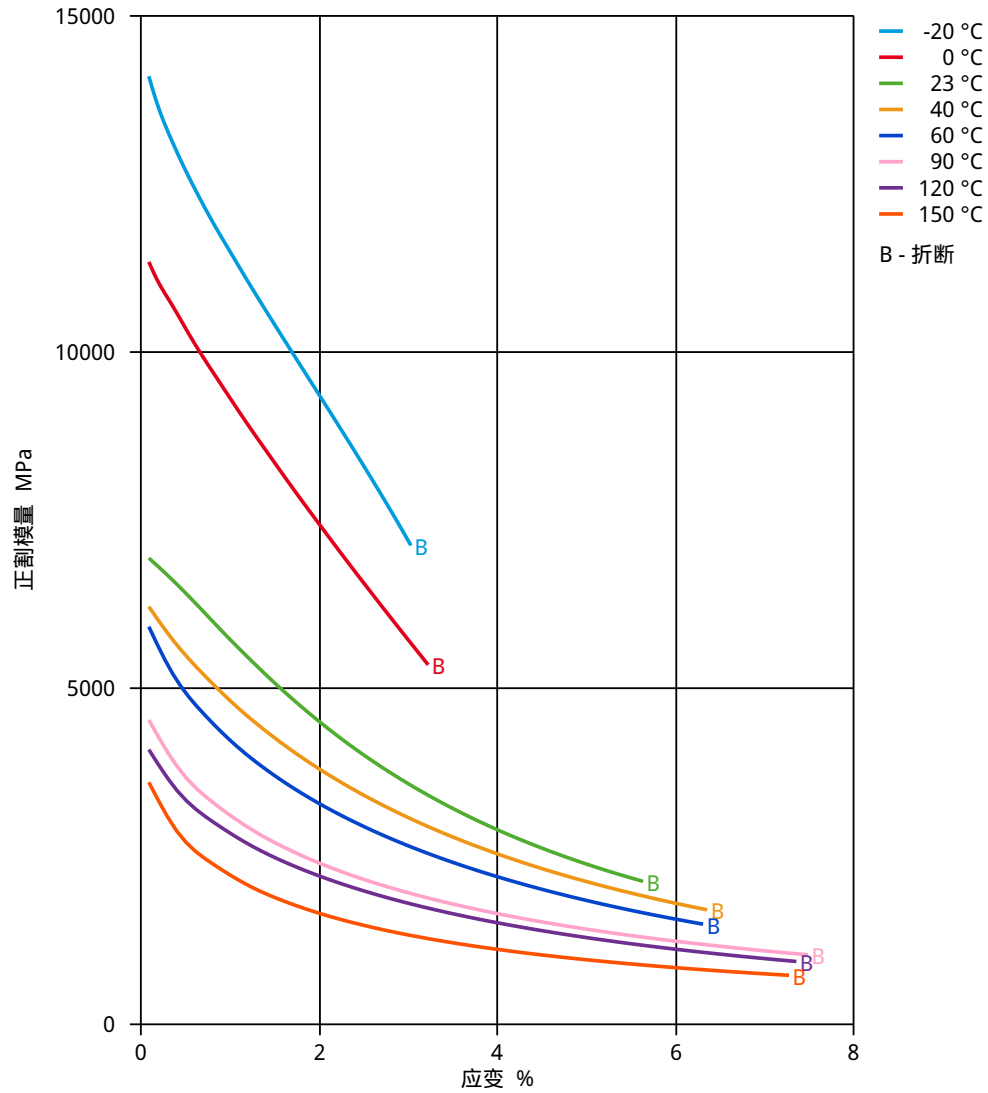
正割模量 - 应变. (dry)



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NYLON RESIN

正割模量 - 应变. (cond.)

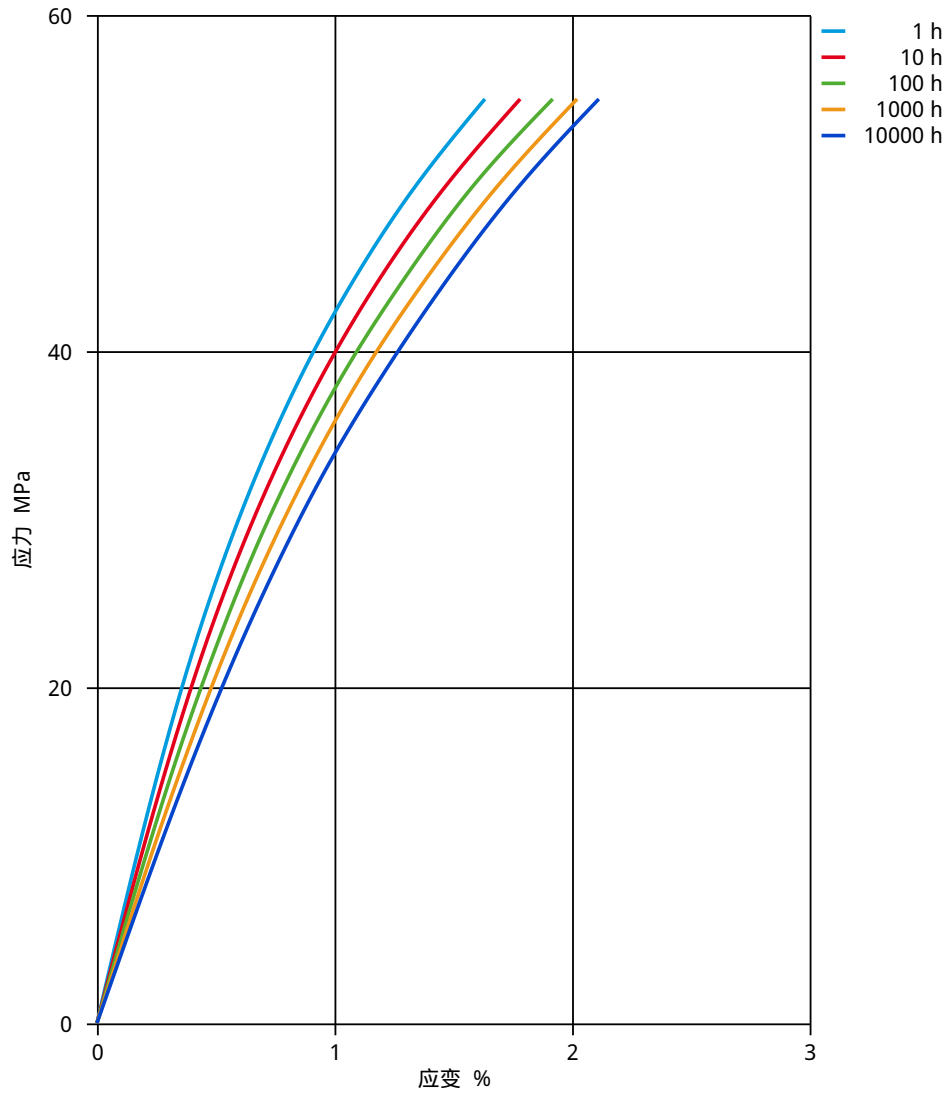




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NYLON RESIN

应力 - 应变(等时的) 23°C (cond.)

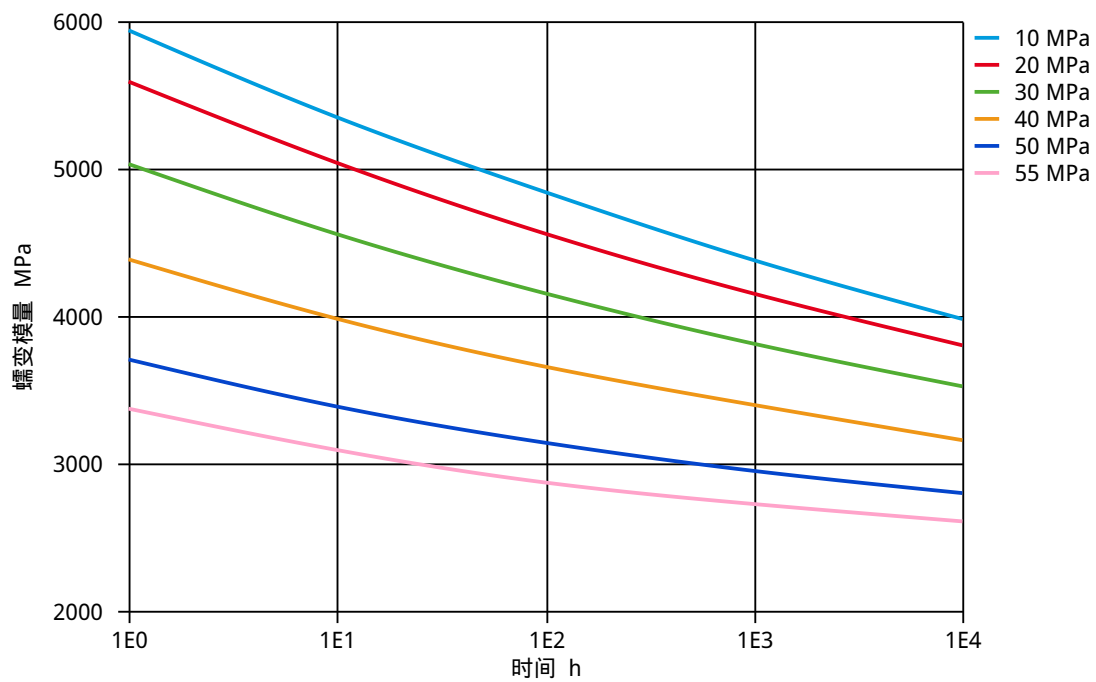




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NYLON RESIN

蠕变模量 - 时间. 23°C (cond.)

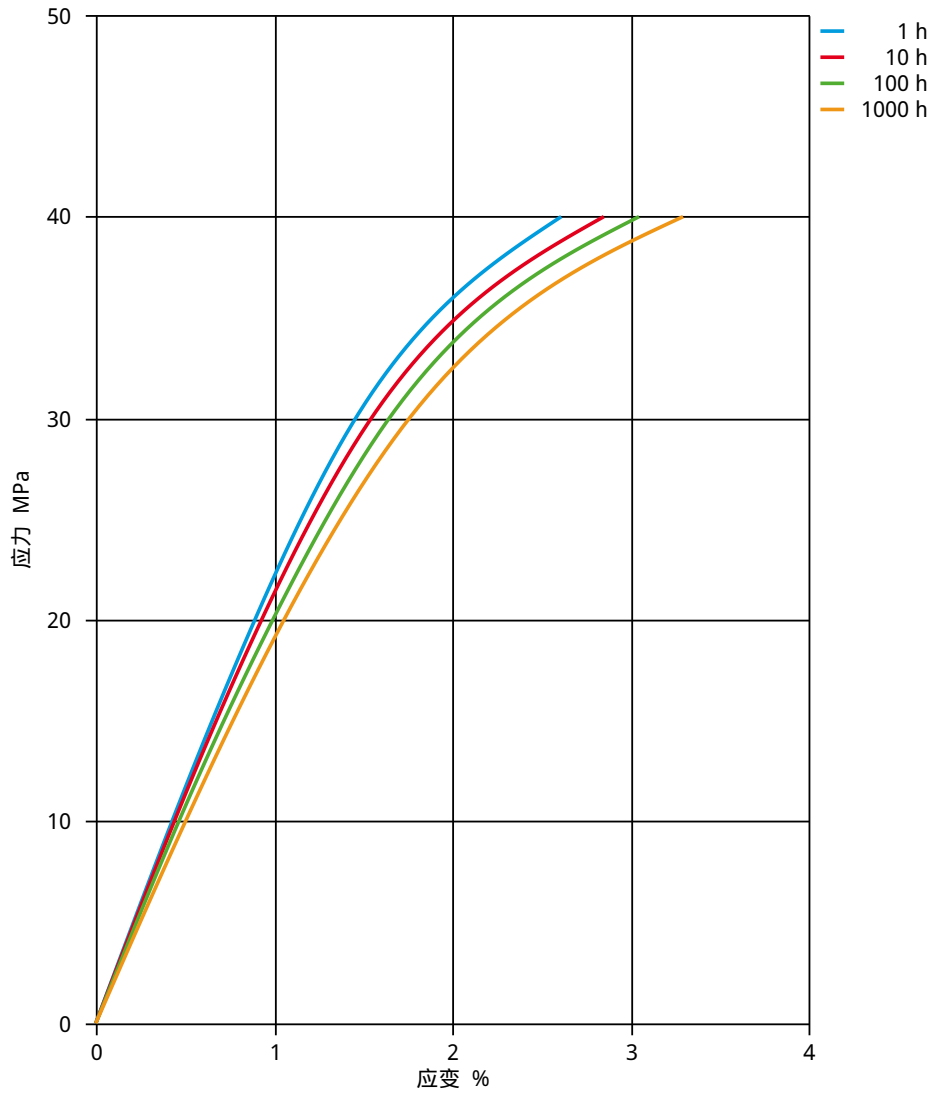




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应力 - 应变(等时的) 150°C (dry)

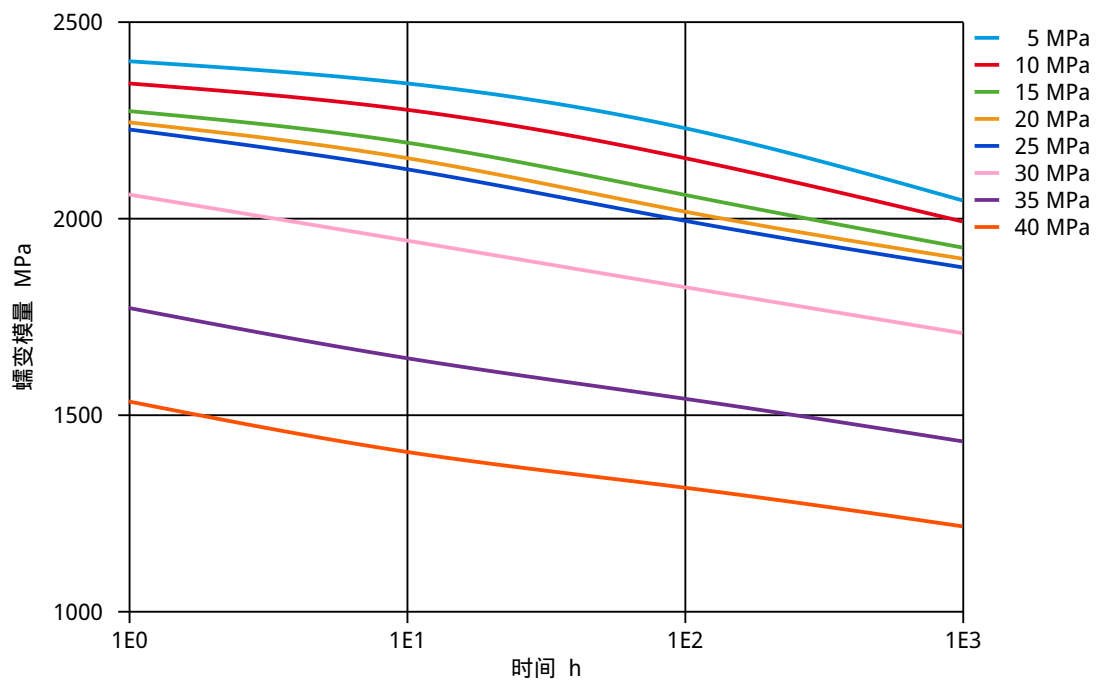




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NYLON RESIN

蠕变模量 - 时间. 150°C (dry)

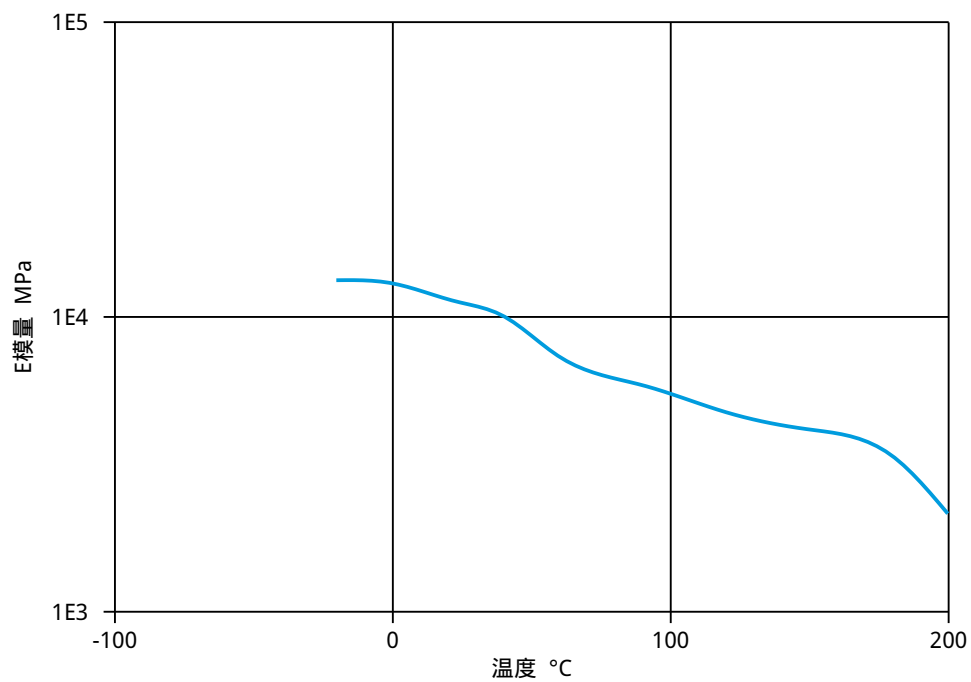




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NYLON RESIN

拉伸模量 - 温度 (dry)

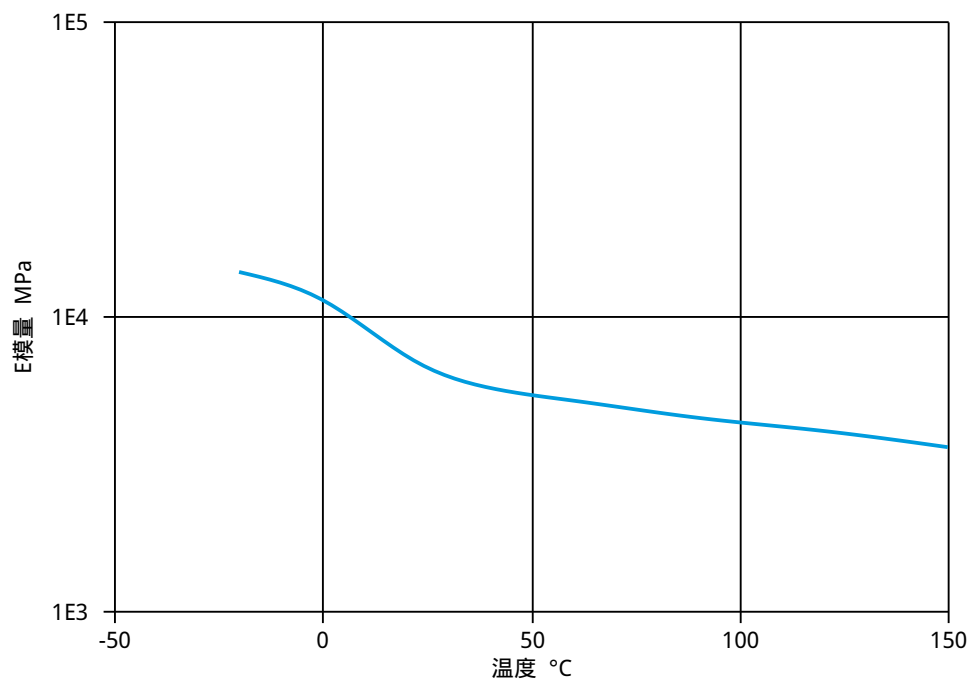




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NYLON RESIN

拉伸模量 - 温度 (cond.)

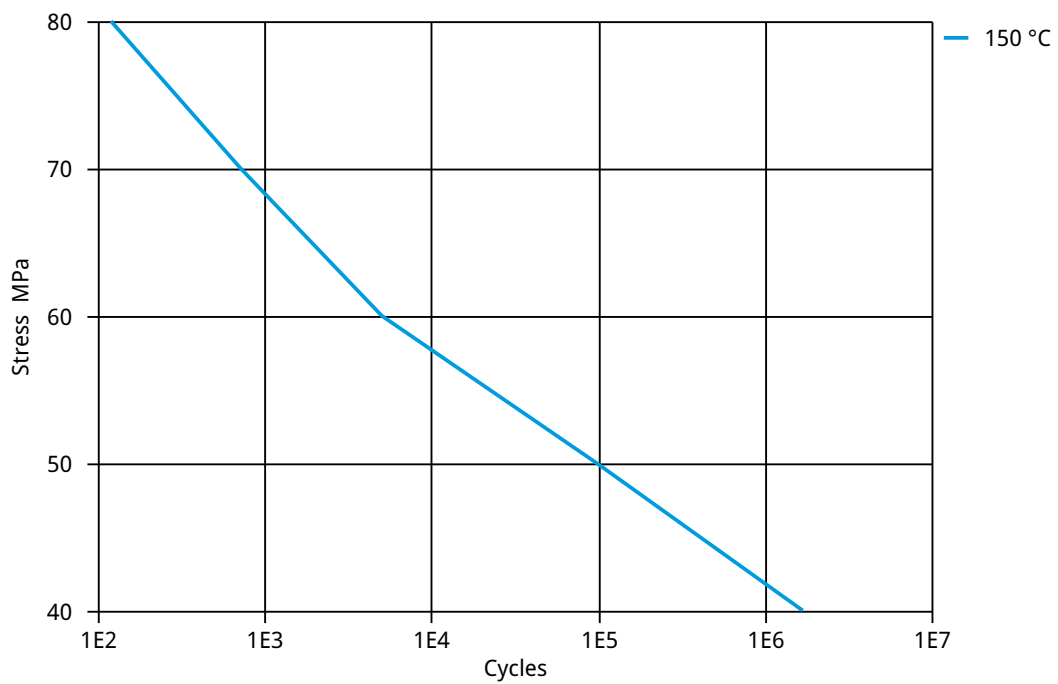




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疲劳(Wöhler), 拉伸, 10Hz, R=0. 4mm (cond.)



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耐化学性

酸类

- ✓ 醋酸 (5g/100g), 23°C
- ✓ 柠檬酸溶液 (10g/100g), 23°C
- ✓ 乳酸 (10g/100g), 23°C
- ✗ 盐酸 (36g/100g), 23°C
- ✗ 硝酸 (40g/100g), 23°C
- ✗ 硫酸 (38g/100g), 23°C
- ✗ 硫酸 (5g/100g), 23°C
- ✗ 铬酸溶液 (40g/100g), 23°C

碱类

- ✗ 氢氧化钠溶液 (35g/100g), 23°C
- ✓ 氢氧化钠溶液 (1g/100g), 23°C
- ✓ 氨水(氢氧化铵) (10g/100g), 23°C

醇类

- ✓ 异丙醇, 23°C
- ✓ 甲醇, 23°C
- ✓ 乙醇, 23°C

碳氢化合物

- ✓ n-乙烷, 23°C
- ✓ 甲苯, 23°C
- ✓ 异辛烷, 23°C

酮类

- ✓ 丙酮, 23°C

醚类

- ✓ (二)乙醚, 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
- ✓ SAE 89/90号变速箱润滑油, 130°C
- ✓ 绝缘油, 23°C
- ✓ 滑油OS206 304 Ref.Eng.Oil, ISP, 135°C
- ✓ 自动准双曲面齿轮油壳牌壳牌Donax, 135°C
- ✓ 水力油Pentosin CHF 202, 125°C

标准燃油

- ✓ ISO 1817 燃油1号, 60°C
- ✓ ISO 1817 燃油2号, 60°C
- ✗ ISO 1817 燃油3号, 60°C
- ✗ ISO 1817 燃油4号, 60°C
- ✓ 不含酒精的标准燃油(优先使用C类ISO 1817 燃油), 23°C
- ✓ 含酒精的标准燃油(优先使用4号ISO 1817 燃油), 23°C

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NYLON RESIN

- ✓ 柴油(优先使用F类ISO 1817液体), 23°C
- ✗ 柴油(优先使用F类ISO 1817液体), 90°C
- ✗ 柴油(优先使用F类ISO 1817液体), >90°C

盐溶液

- ✓ 氯化钠溶液(10g/100g), 23°C
- ✗ 次氯化钠溶液 (10g/100g), 23°C
- ✓ 碳酸钠溶液 (20g/100g), 23°C
- ✓ 碳酸钠溶液 (2g/100g), 23°C
- ✗ 氯化锌溶液 (50g/100g), 23°C

其它

- ✓ 乙酸乙酯, 23°C
- ✗ 过氧化氢, 23°C
- ✓ DOT4号刹车油, 130°C
- ✗ 乙二醇水溶液 (50g/100g), 108°C
- ✓ 1g/100g 基苯氧- 聚环氧乙烷乙烯水溶液, 23°C
- ✓ 油酸 (50g/100g) + 橄榄油 (50g/100g), 23°C
- ✓ 水, 23°C
- ✗ 去离子水, 90°C
- ✗ 酚溶液(5g/100g), 23°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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