

# DuPont™ Zytel® 70G35HSLX BK357

## NYLON RESIN

### 产品

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-31 kJ/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® 70G35HSLX BK357是一种35% 玻纤增强, 热稳定, 尼龙66

总说明	数值	单位	测试标准
树脂鉴别	PA66-GF35	-	ISO 1043
产品标识码	PA66-GF35	-	ISO 11469
流变性能	干态/调节后	单位	测试标准
模塑收缩率, 平行	0.3 / -	%	ISO 294-4, 2577
模塑收缩率, 垂直	1.1 / -	%	ISO 294-4, 2577
机械性能	干态/调节后	单位	测试标准
拉伸模量	11000 / 8000	MPa	ISO 527-1/-2
断裂应力	210 / 140	MPa	ISO 527-1/-2
断裂伸长率	3 / 5	%	ISO 527-1/-2
弯曲模量	9500 / -	MPa	ISO 178
弯曲强度	300 / 230	MPa	ISO 178
拉伸蠕变模量			ISO 899-1
1h	* / 8500	MPa	
1000h	* / 6000	MPa	
无缺口简支梁冲击强度			ISO 179/1eU
+23°C	90 / 90	kJ/m <sup>2</sup>	
-30°C	80 / 70	kJ/m <sup>2</sup>	
简支梁缺口冲击强度			ISO 179/1eA
+23°C	13 / 16	kJ/m <sup>2</sup>	
-30°C	10 / 10	kJ/m <sup>2</sup>	
冲孔功, +23°C	6 / -	J	ISO 6603-2
悬臂梁缺口冲击强度, 23°C	12 / 15	kJ/m <sup>2</sup>	ISO 180/1A
DS: Derived from similar grade			
热性能	干态/调节后	单位	测试标准
熔融温度, 10°C/min	263 / *	°C	ISO 11357-1/-3
玻璃化转变温度, 10°C/min	80 / 20	°C	ISO 11357-1/-2
热变形温度			ISO 75-1/-2
1.80 MPa	252 / *	°C	
0.45 MPa	260 / *	°C	
线膨胀系数, 平行	17 / *	E-6/K	ISO 11359-1/-2
线膨胀系数, 垂直	85 / *	E-6/K	ISO 11359-1/-2
熔体	0.24	W/(m K)	-
熔体的比热	2130	J/(kg K)	-
燃烧性能	干态/调节后	单位	测试标准
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
厚度为h时的燃烧性	HB / *	class	IEC 60695-11-10
测试用试样的厚度	0.7 / *	mm	IEC 60695-11-10
燃烧性 - 氧指数	21 / *	%	ISO 4589-1/-2
FMVSS Class	B	-	ISO 3795 (FMVSS 302)

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燃烧速率, 厚度 : 1毫米			
	30	mm/min	ISO 3795 (FMVSS 302)
<b>电性能</b>			
干态/调节后	单位	测试标准	
相对介电常数, 1MHz	4.1 / 4.7	-	IEC 60250
介质损耗因子, 1MHz	140 / 620	E-4	IEC 60250
体积电阻率	1E13 / 1E9	Ohm*m	IEC 60093
表面电阻率	* / 1E13	Ohm	IEC 60093
<b>其它性能</b>			
干态/调节后	单位	测试标准	
吸湿性, 2mm	1.7 / *	%	类似ISO 62
吸水性, 2mm	5.5 / *	%	类似ISO 62
密度	1410 / -	kg/m <sup>3</sup>	ISO 1183
熔体密度	1240	kg/m <sup>3</sup>	-
<b>VDA性能</b>			
干态/调节后	单位	测试标准	
气味测试	3	class	VDA 270
雾化	0.5 / *	mg	ISO 6452
<b>注塑</b>			
干态/调节后	单位	测试标准	
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	%	-
最优熔体温度	295	°C	-
注塑 熔体温度	285	°C	-
注塑 熔体温度	305	°C	-
螺杆最大切线速度	0.2 / *	m/s	-
最优模具温度	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	210	°C	-

典型数据			
加工方法	• 注塑		
供货形式	• 粒料		
添加剂	• 润滑剂	• 脱模助剂	
特殊性能	• 热稳定、耐热的		
地区供应	• 欧洲	• 中东/非洲	

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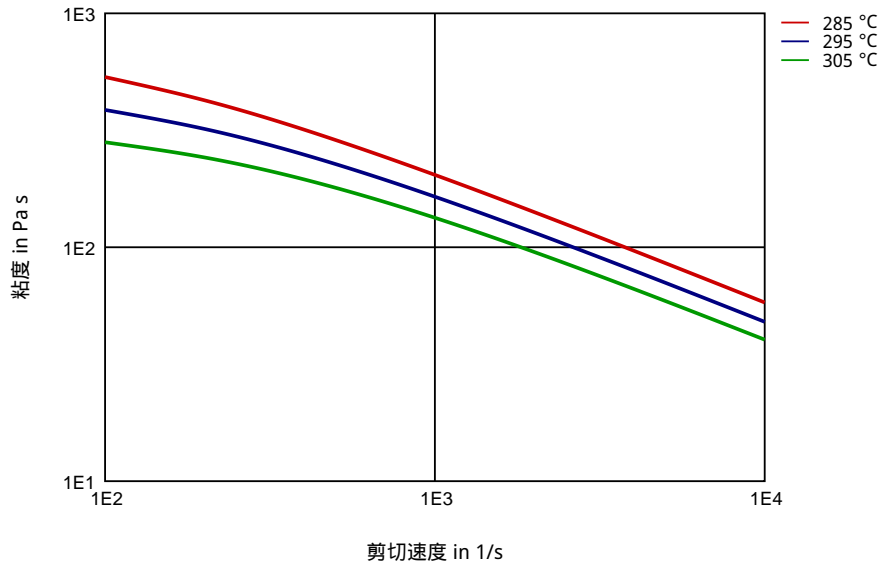
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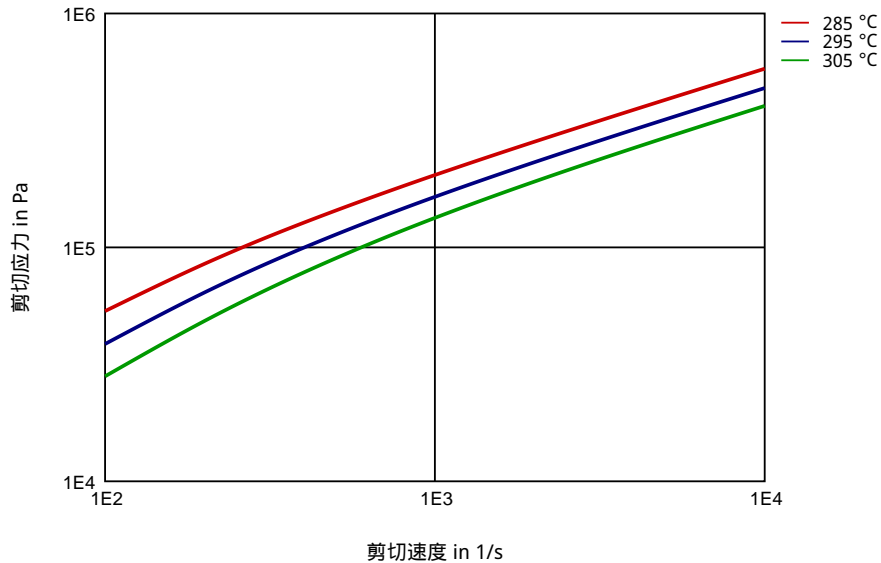
## NYLON RESIN

图表

粘度 - 剪切速度



剪切应力 - 剪切速度



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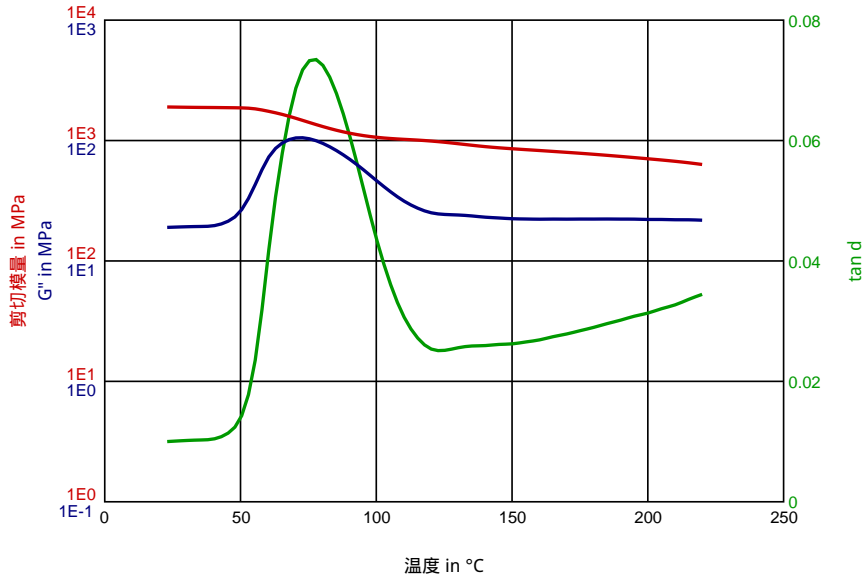
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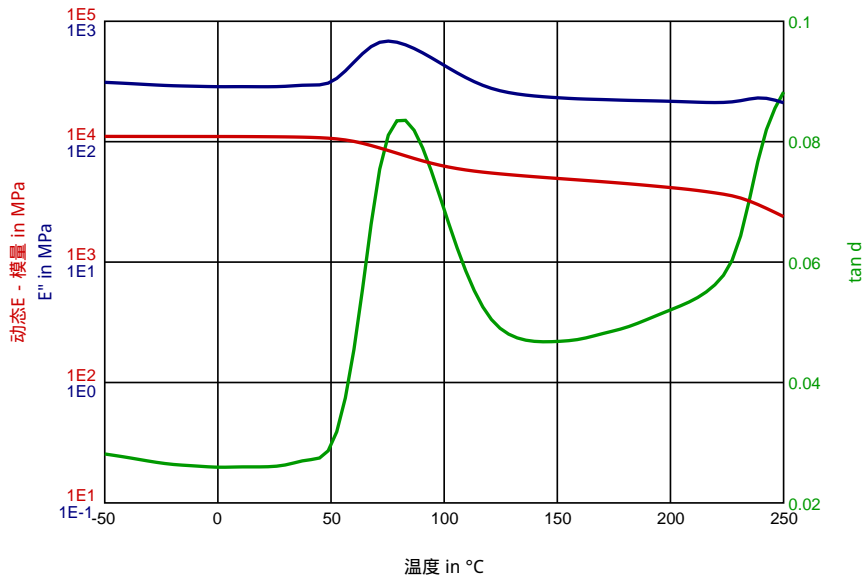
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## NYLON RESIN

动态剪切模量 - 温度 (干)



动态E - 模量 - 温度 (干)



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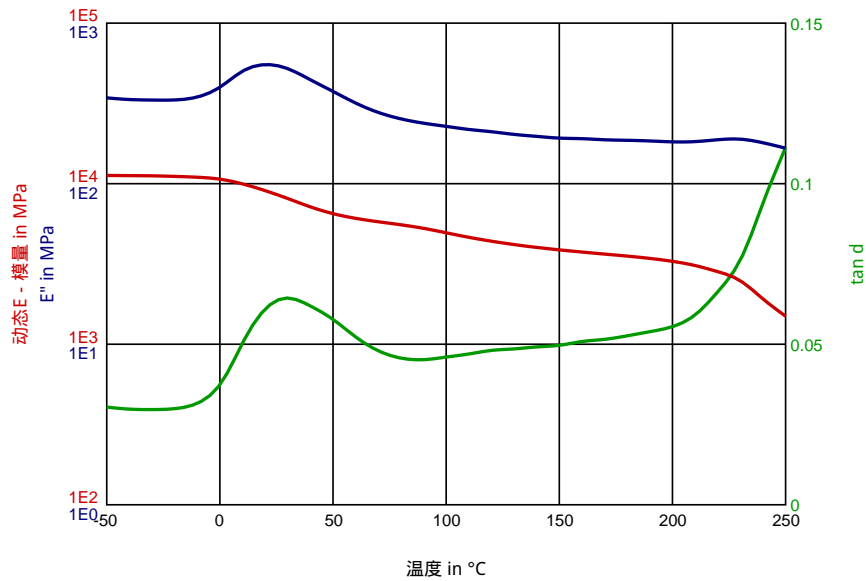


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NYLON RESIN

动态E - 模量 - 温度 (湿)



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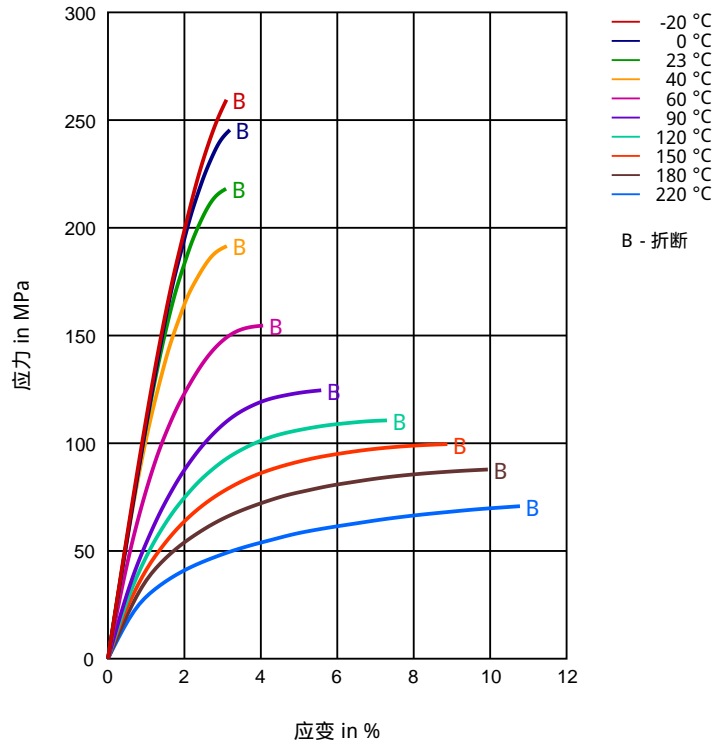


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## NYLON RESIN

应力 - 应变. (干)



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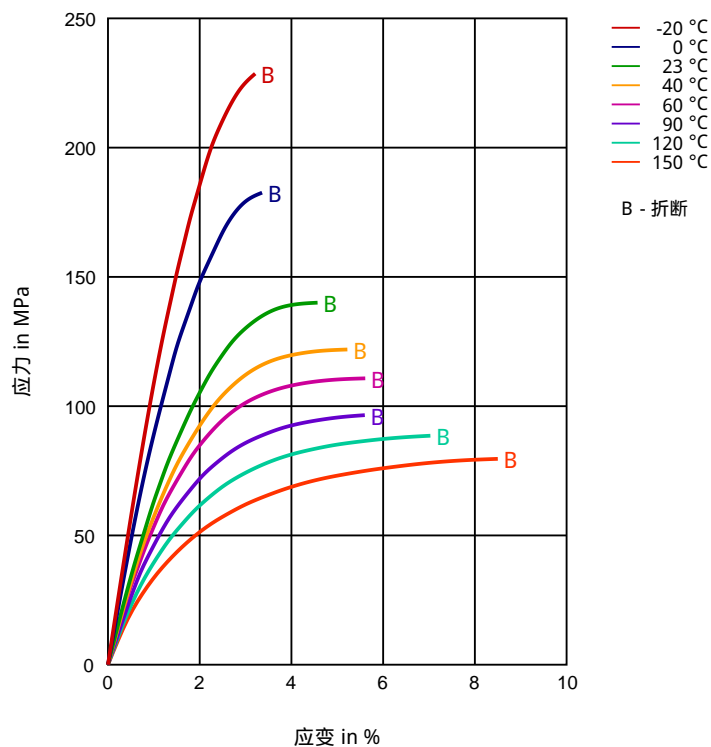
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NYLON RESIN

应力 - 应变. (湿)



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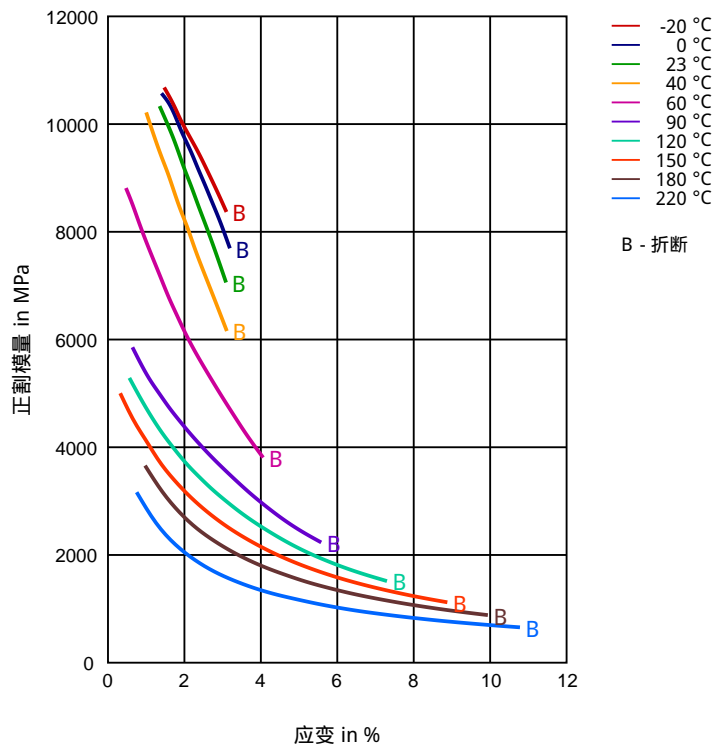


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## NYLON RESIN

正割模量 - 应变. (干)



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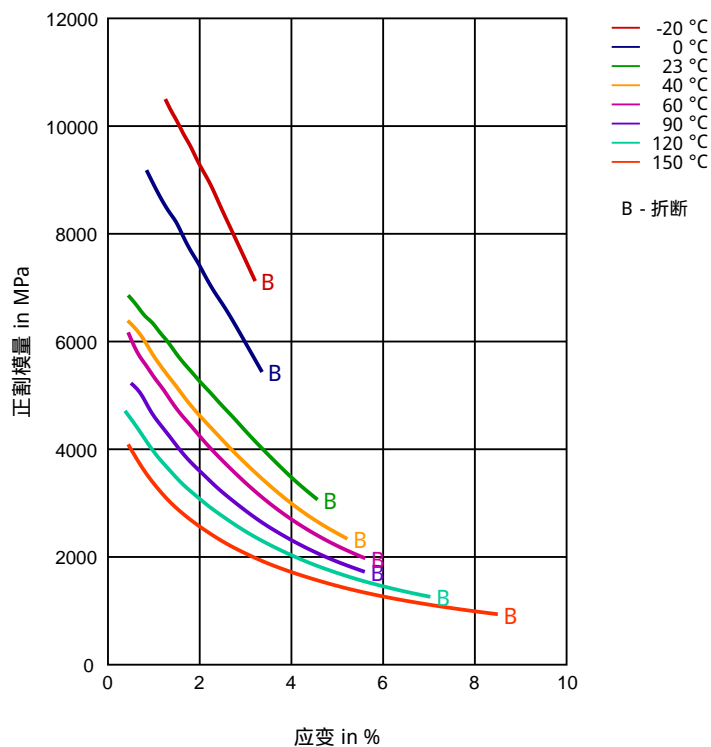




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NYLON RESIN

正割模量 - 应变. (湿)



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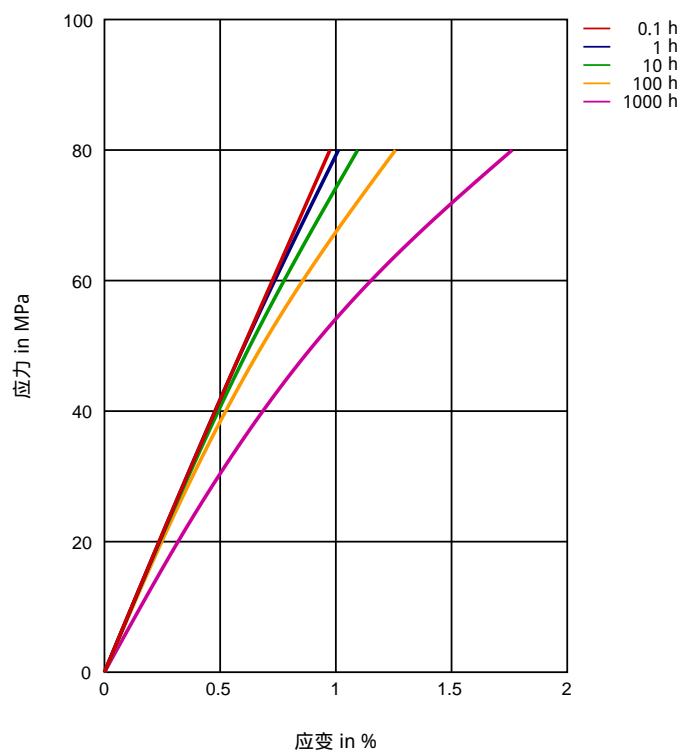


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# DuPont™ Zytel® 70G35HSLX BK357

NYLON RESIN

应力 - 应变(等时的) 23°C(湿)



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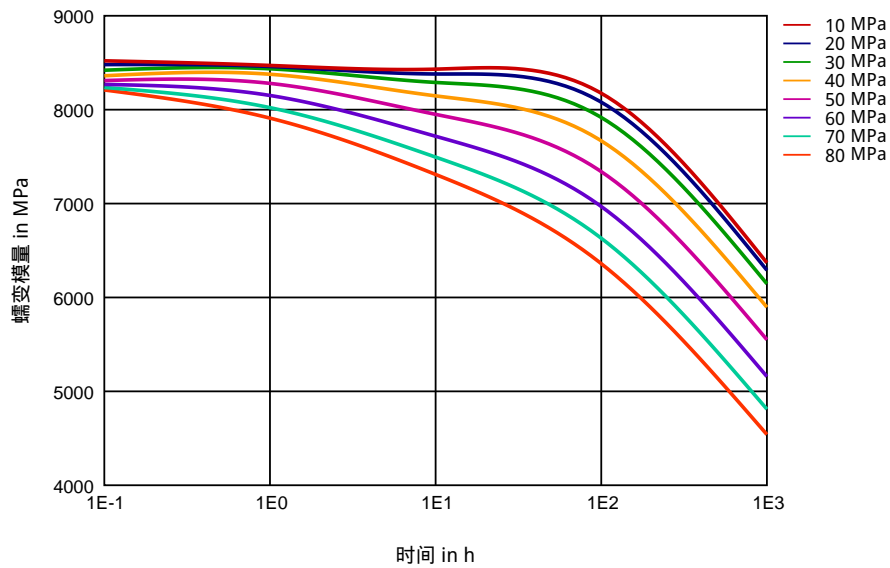


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# DuPont™ Zytel® 70G35HSLX BK357

## NYLON RESIN

蠕变模量 - 时间, 23°C(湿)



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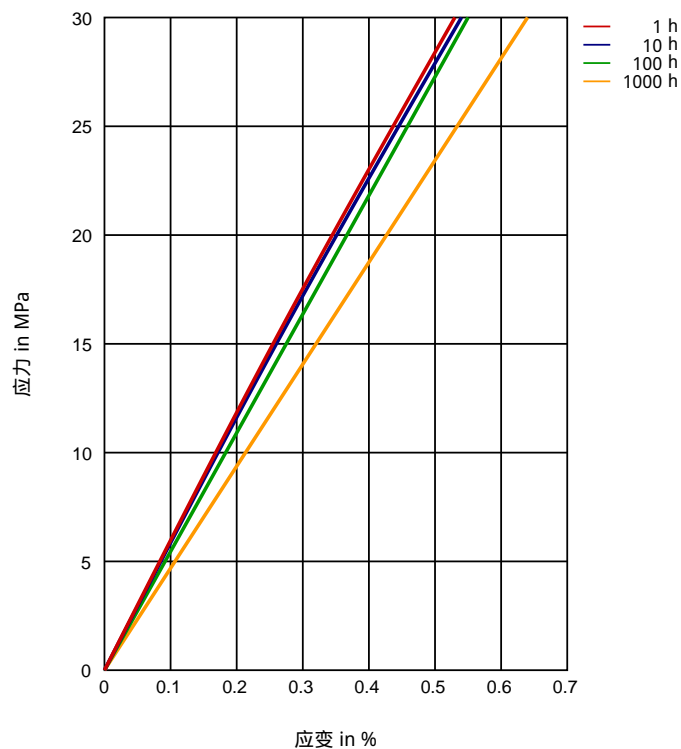


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# DuPont™ Zytel® 70G35HSLX BK357

NYLON RESIN

应力 - 应变(等时的) 100°C(干)



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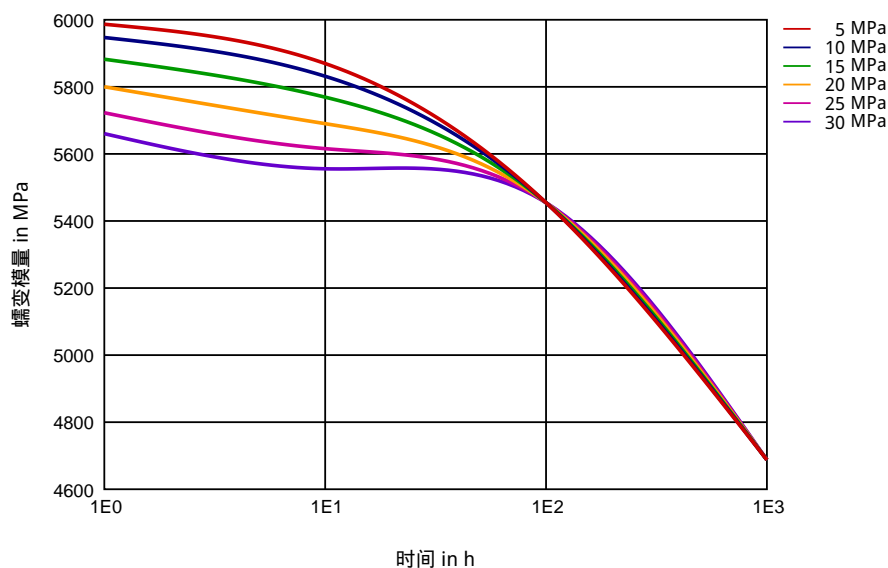


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## NYLON RESIN

蠕变模量 - 时间, 100°C(干)



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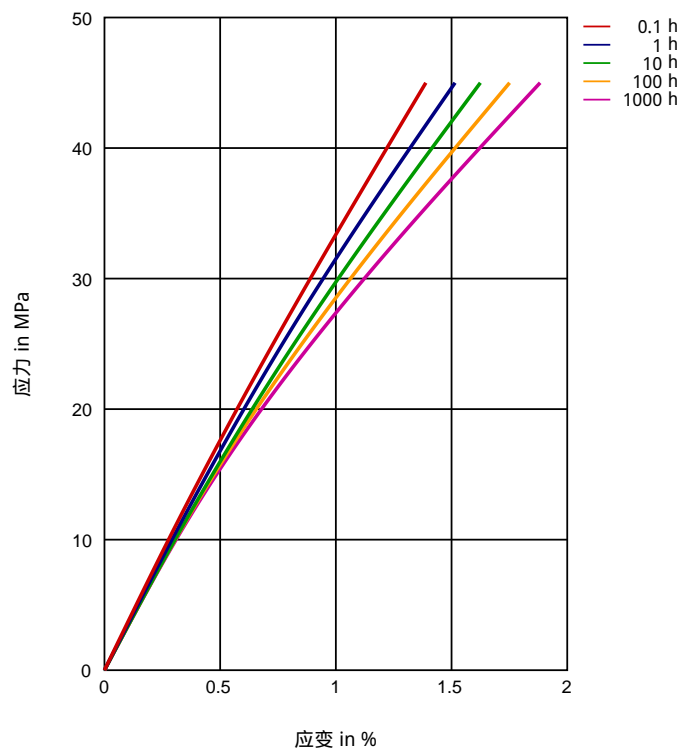


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# DuPont™ Zytel® 70G35HSLX BK357

NYLON RESIN

应力 - 应变(等时的) 130°C(干)



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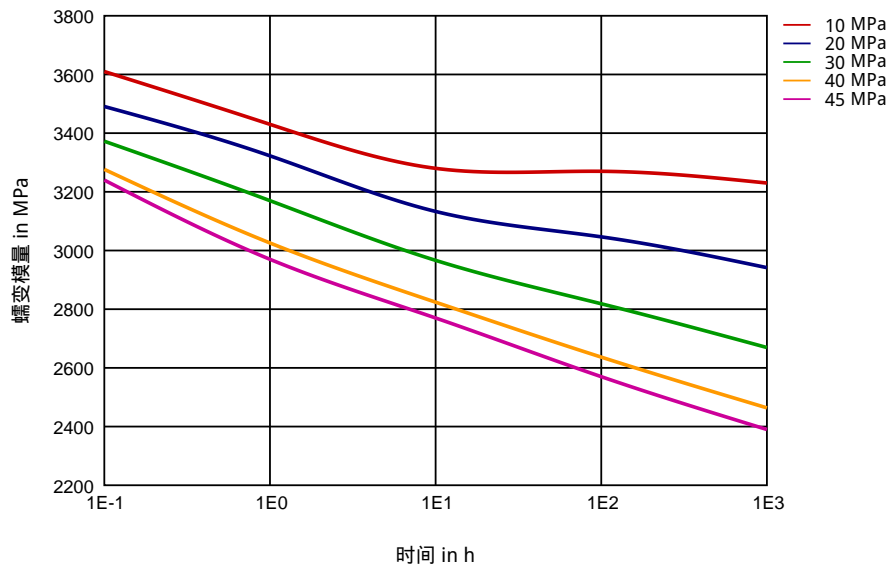


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## NYLON RESIN

蠕变模量 - 时间. 130°C(干)



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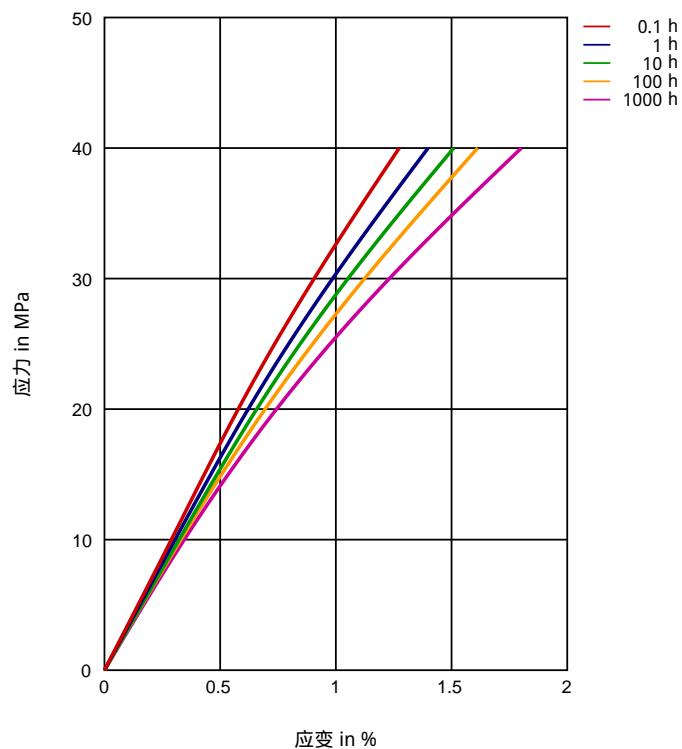


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# DuPont™ Zytel® 70G35HSLX BK357

NYLON RESIN

应力 - 应变(等时的) 150°C(干)



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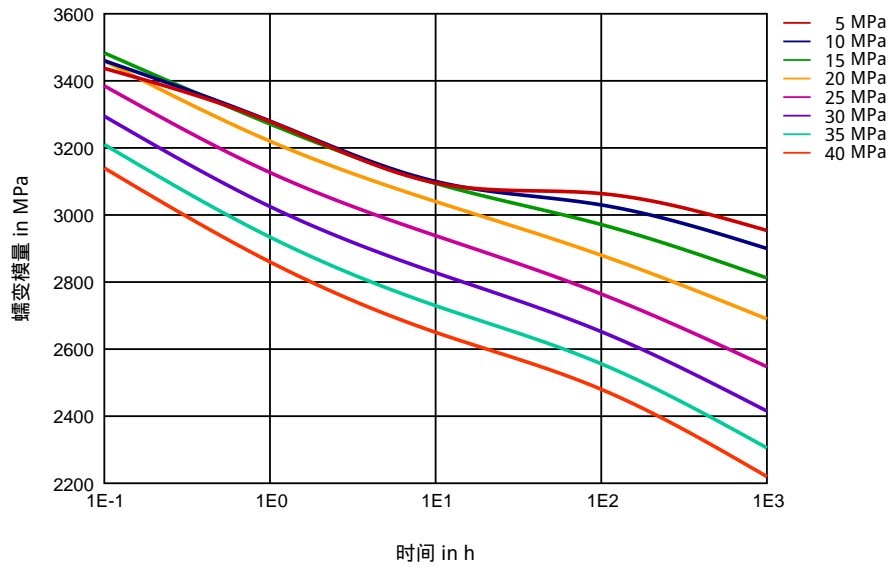
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蠕变模量 - 时间. 150°C(干)



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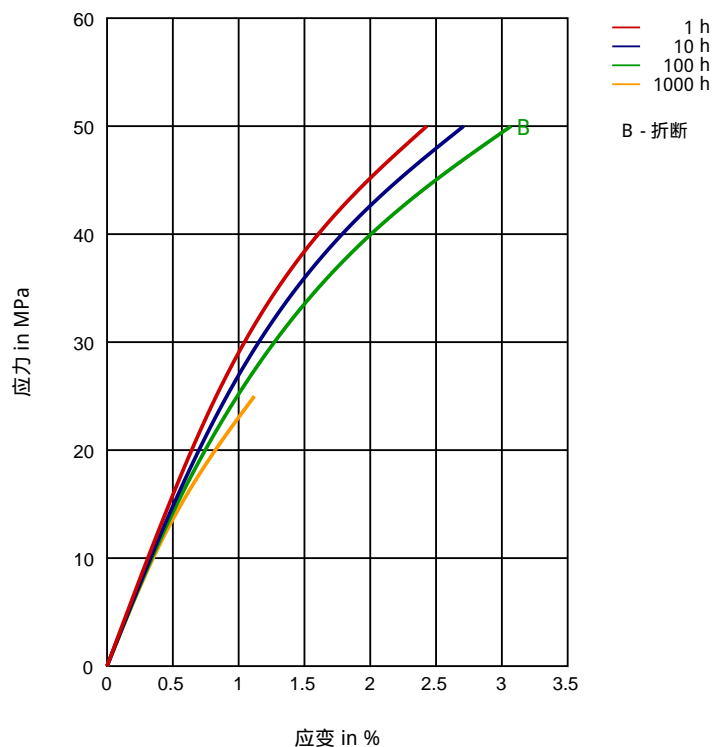


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# DuPont™ Zytel® 70G35HSLX BK357

NYLON RESIN

应力 - 应变(等时的) 180°C(干)



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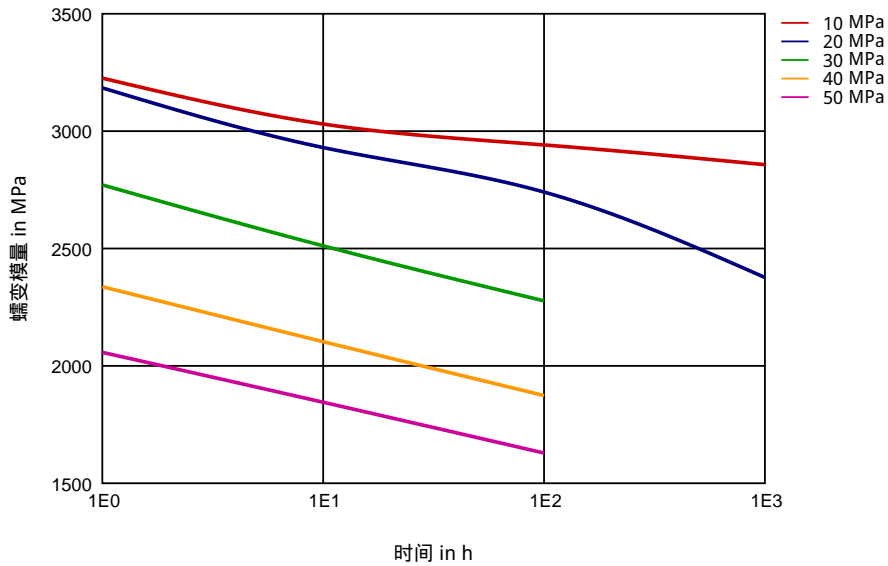


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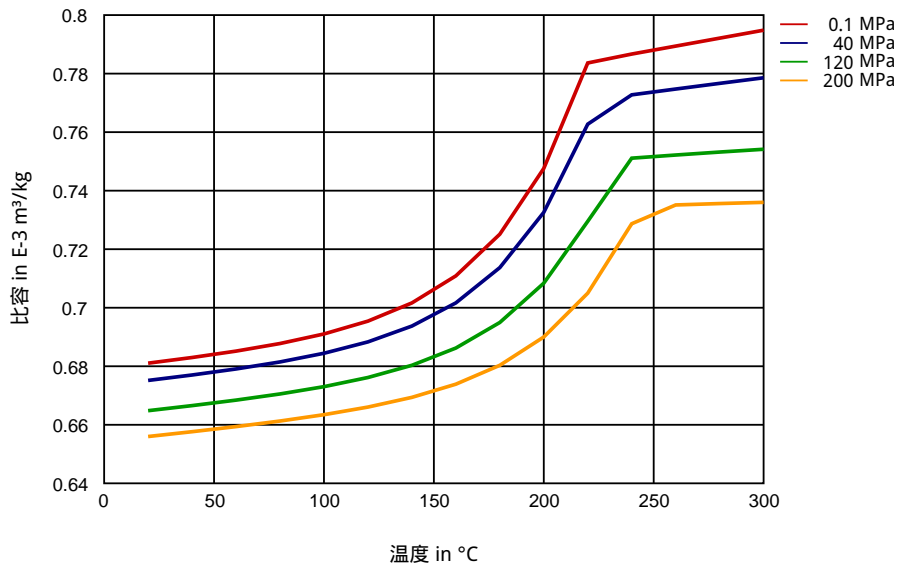
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## NYLON RESIN

蠕变模量 - 时间, 180°C(干)



比容 - 温度(pvT)



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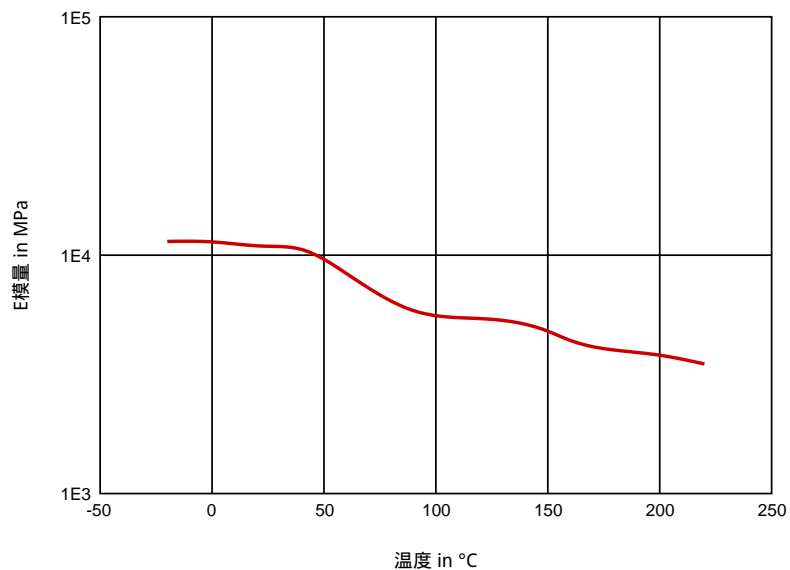
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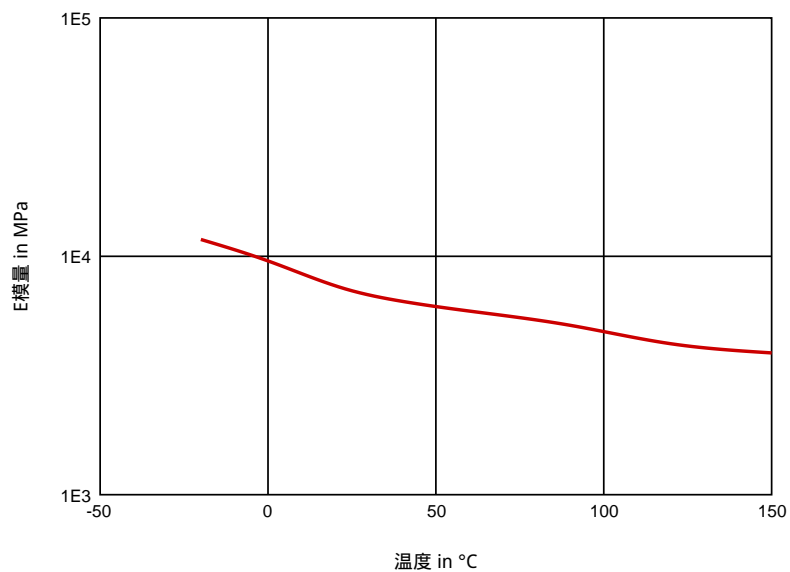
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## NYLON RESIN

### 拉伸模量 - 温度(干)



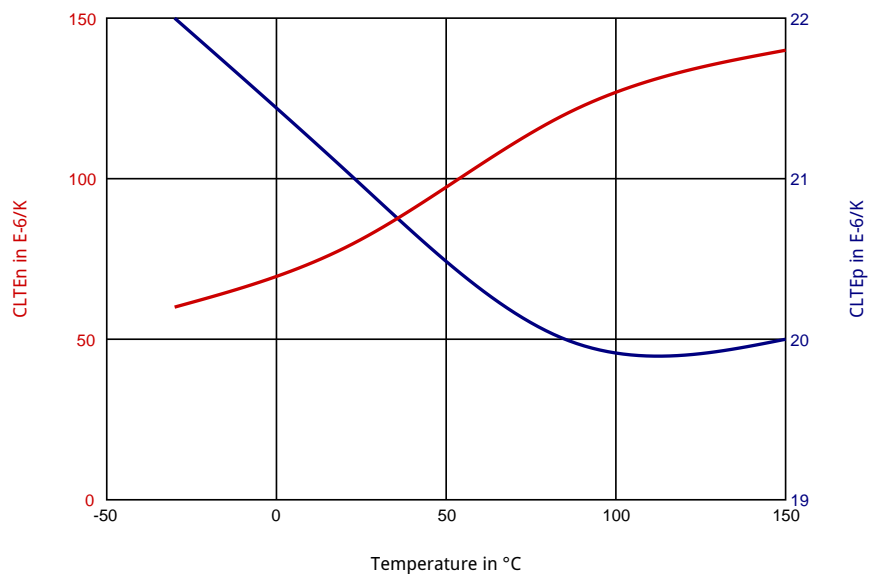
### 拉伸模量 - 温度(湿)



# DuPont™ Zytel® 70G35HSLX BK357

## NYLON RESIN

Coeff. of linear thermal expansion, normal (measured on Zytel® 70G35HSLRA4 BK267)



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# DuPont™ Zytel® 70G35HSLX BK357

## NYLON RESIN

### 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)

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# DuPont™ Zytel® 70G35HSLX BK357

## NYLON RESIN

- ✓ 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)
- ✓ 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)
- ✗ 冷却Glysantin G48 , 1:1水环境 (125°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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# DuPont™ Zytel® 70G35HSLX BK357

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