



# Zytel® 73G30T BK261

## 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® 73G30T BK261是一种30% 玻纤增强, 增韧, 尼龙6

### 总说明

树脂鉴别	PA6-IGF30	ISO 1043
制品标识码	>PA6-IGF30<	ISO 11469
ISO名称	ISO 16396-PA6-I,GF30,M1CGR,S14-090	

### 流变性能

	dry/cond.		
熔体质量流动速率	12.5/*	g/10min	ISO 1133
熔体质量流率, 温度	250/*	°C	ISO 1133
熔体质量流率, 载荷	5/*	kg	ISO 1133
粘度.	150/*	cm <sup>3</sup> /g	ISO 307, 1157, 1628
模塑收缩率, 平行	0.2/-	%	ISO 294-4, 2577
模塑收缩率, 垂直	1.0/-	%	ISO 294-4, 2577

### 机械性能

	dry/cond.		
拉伸模量	9000/5600	MPa	ISO 527-1/-2
断裂应力	160/105	MPa	ISO 527-1/-2
断裂伸长率	3.5/7	%	ISO 527-1/-2
弯曲模量	7800/5000 <sup>[PV]</sup>	MPa	ISO 178
简支梁无缺口冲击强度, +23°C	95/95	kJ/m <sup>2</sup>	ISO 179/1eU
简支梁无缺口冲击强度, -30°C	90/85 <sup>[DS]</sup>	kJ/m <sup>2</sup>	ISO 179/1eU
简支梁缺口冲击强度, +23°C	18/25	kJ/m <sup>2</sup>	ISO 179/1eA
简支梁缺口冲击强度, -30°C	10/10	kJ/m <sup>2</sup>	ISO 179/1eA
悬臂梁缺口冲击强度, 23°C	17/22	kJ/m <sup>2</sup>	ISO 180/1A
悬臂梁缺口冲击强度, -30°C	11/11	kJ/m <sup>2</sup>	ISO 180/1A
无缺口悬臂梁冲击强度, 23°C	75/75	kJ/m <sup>2</sup>	ISO 180/1U
Poisson's ratio	0.34/0.35	-	

[PV]: Preliminary Value

[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	60/15	°C	ISO 11357-1/-2
热变形温度, 1.80 MPa	206/*	°C	ISO 75-1/-2
线性热膨胀系数, 平行, -40-23°C	25/*	E-6/K	ISO 11359-1/-2
线膨胀系数, 平行	4/*	E-6/K	ISO 11359-1/-2
线性热膨胀系数, 平行, 55-160°C	6/*	E-6/K	ISO 11359-1/-2
线性热膨胀系数, 垂直, -40-23°C	84/*	E-6/K	ISO 11359-1/-2
线膨胀系数, 垂直	110/*	E-6/K	ISO 11359-1/-2
线膨胀系数, 垂直, 55-160°C	110/*	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	22	mm/min	ISO 3795 (FMVSS 302)

### 其它性能

	dry/cond.		
吸湿性, 2mm	2/*	%	类似ISO 62
密度	1340/-	kg/m³	ISO 1183
熔体密度	1190	kg/m³	

### VDA性能

气味测试	3.5 class		VDA 270
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### 注塑

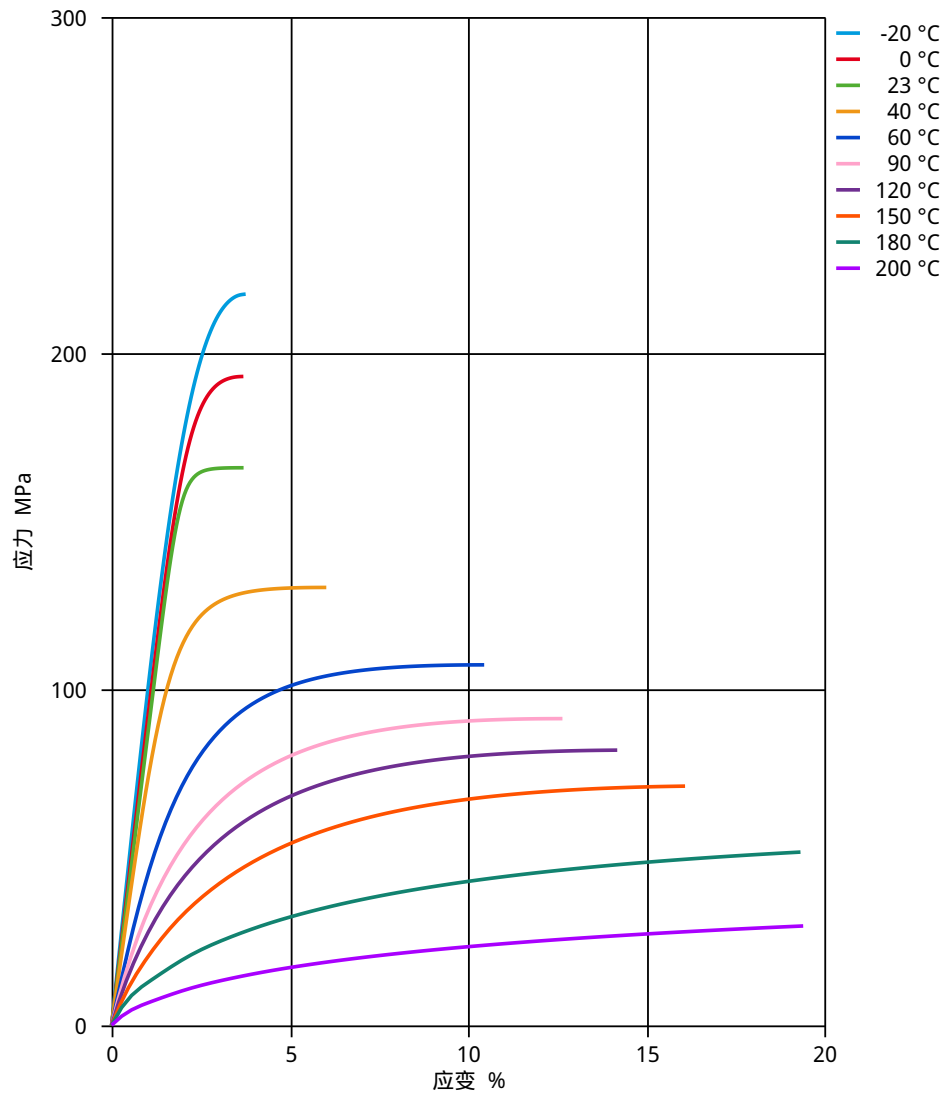
建议干燥	是	
干燥温度	80 °C	
干燥时间, 除湿干燥机	2 - 4 h	
加工前水分含量	≤ 0.2 %	
优良熔体温度	270 °C	
注塑 熔体温度	260 °C	
注塑 熔体温度	280 °C	
螺杆大的切线速度	0.2 m/s	
优良模具温度	80 °C	
模具温度	50 °C	
模具温度	100 °C	
保压范围	50 - 100 MPa	
保压时间	3 s/mm	



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应力 - 应变. (dry)

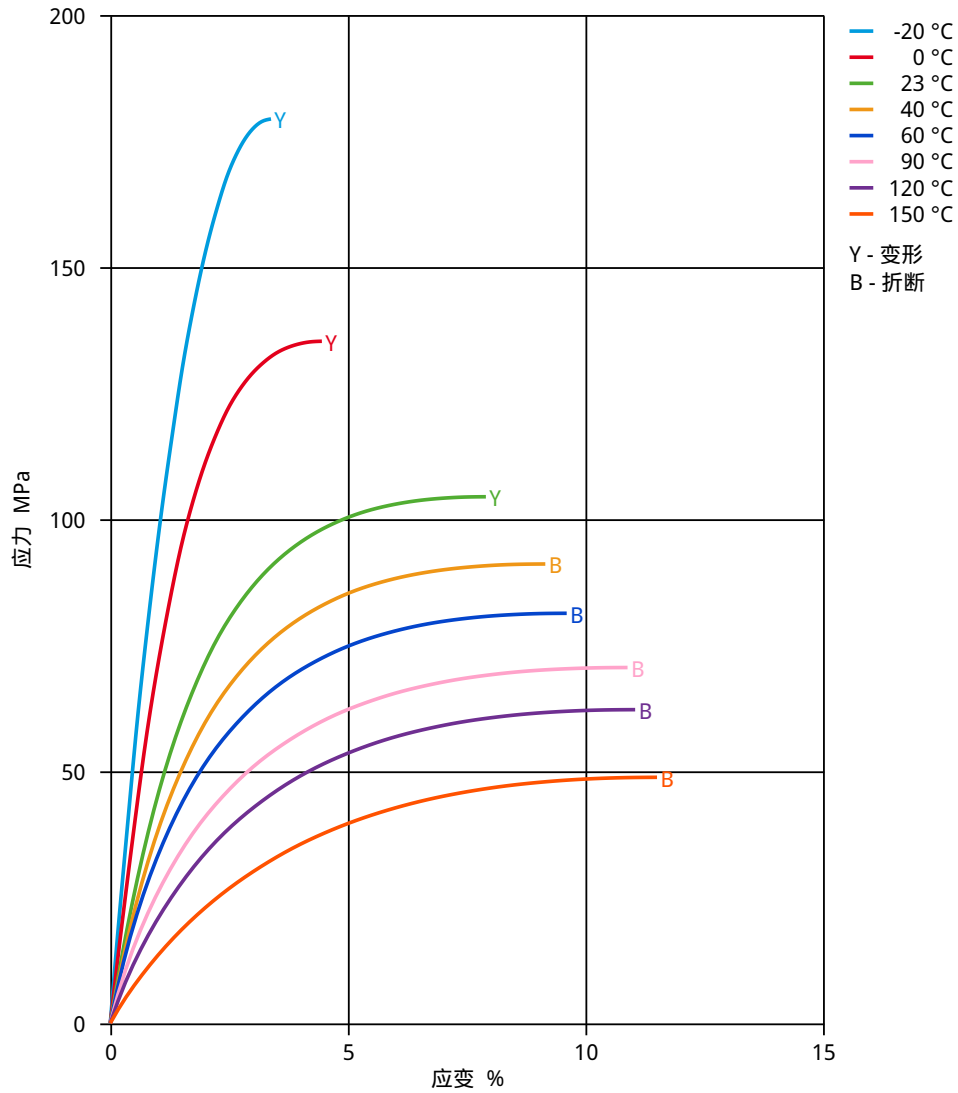




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NYLON RESIN

应力 - 应变. (cond.)

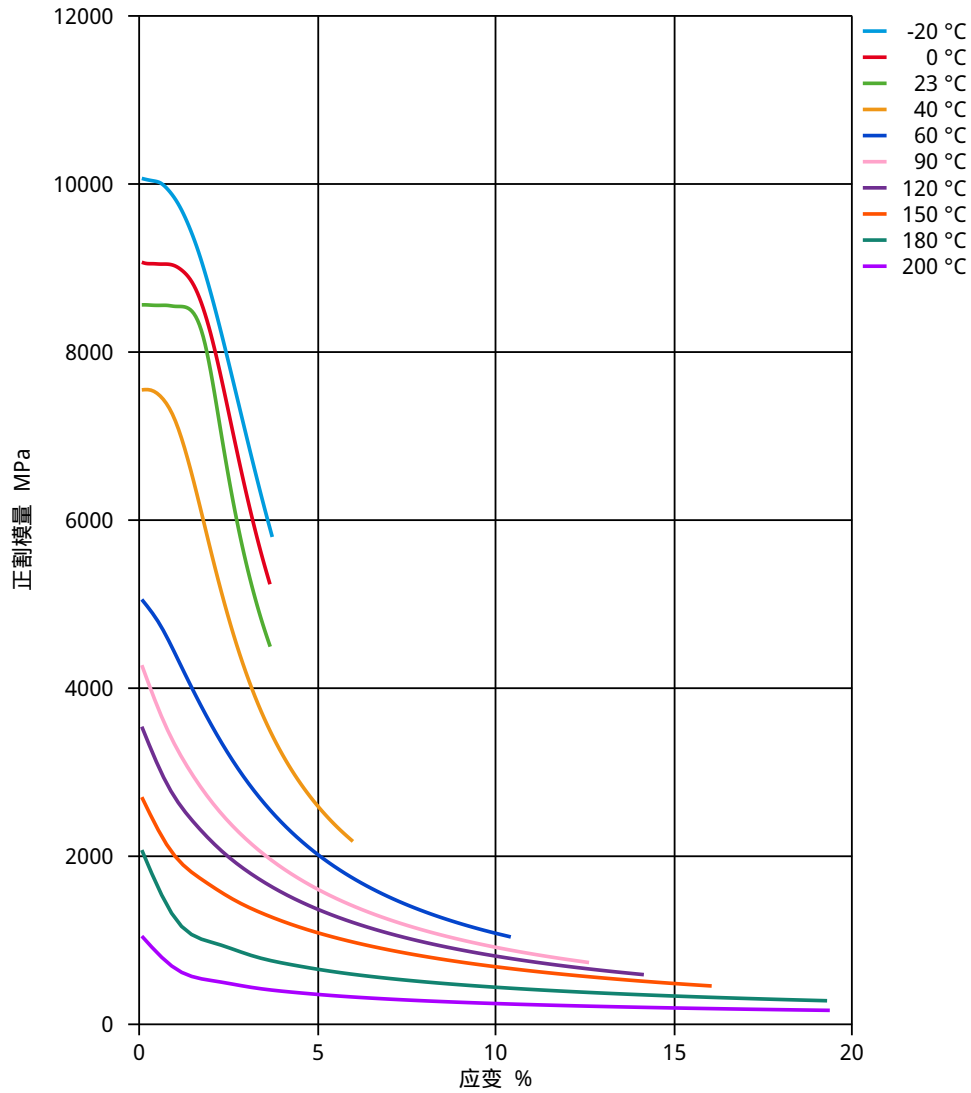




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NYLON RESIN

正割模量 - 应变. (dry)

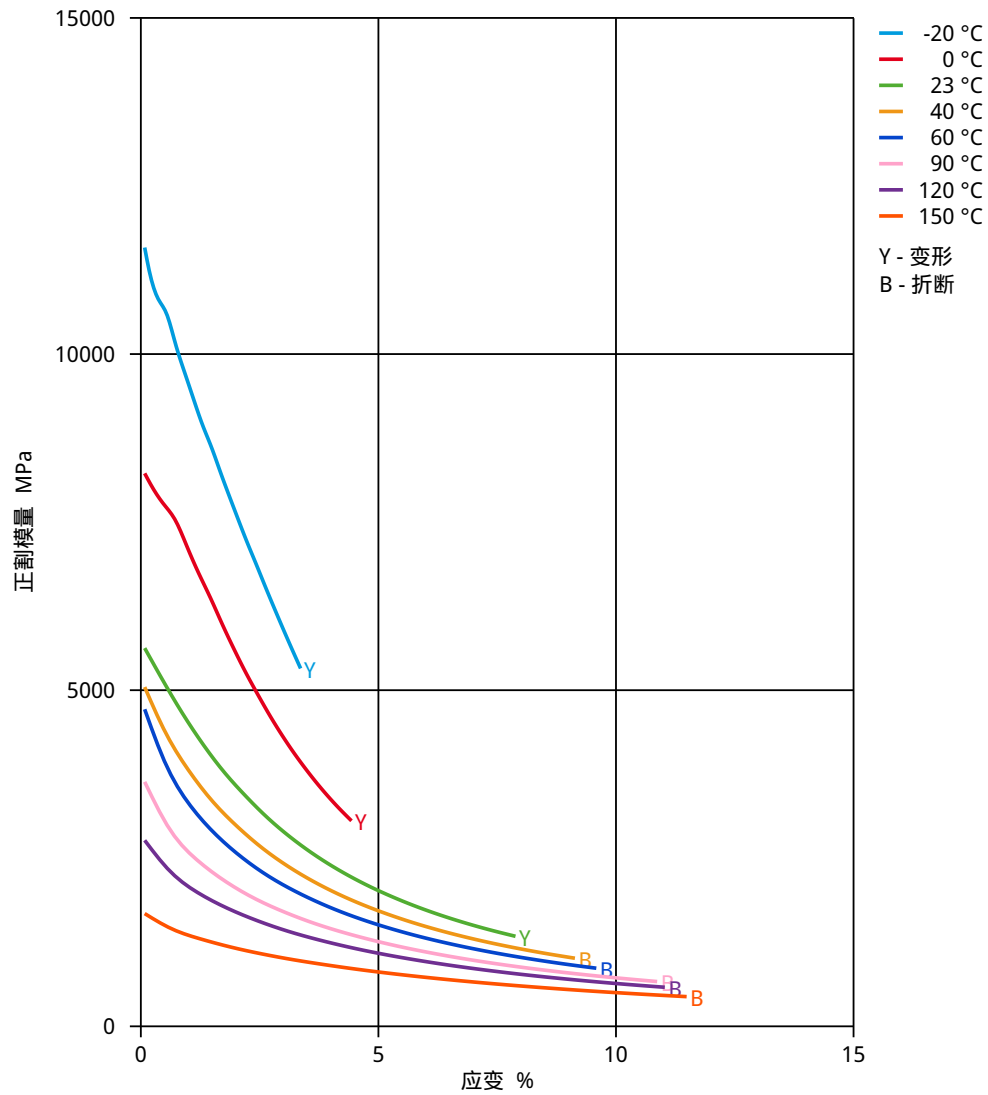




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NYLON RESIN

正割模量 - 应变. (cond.)

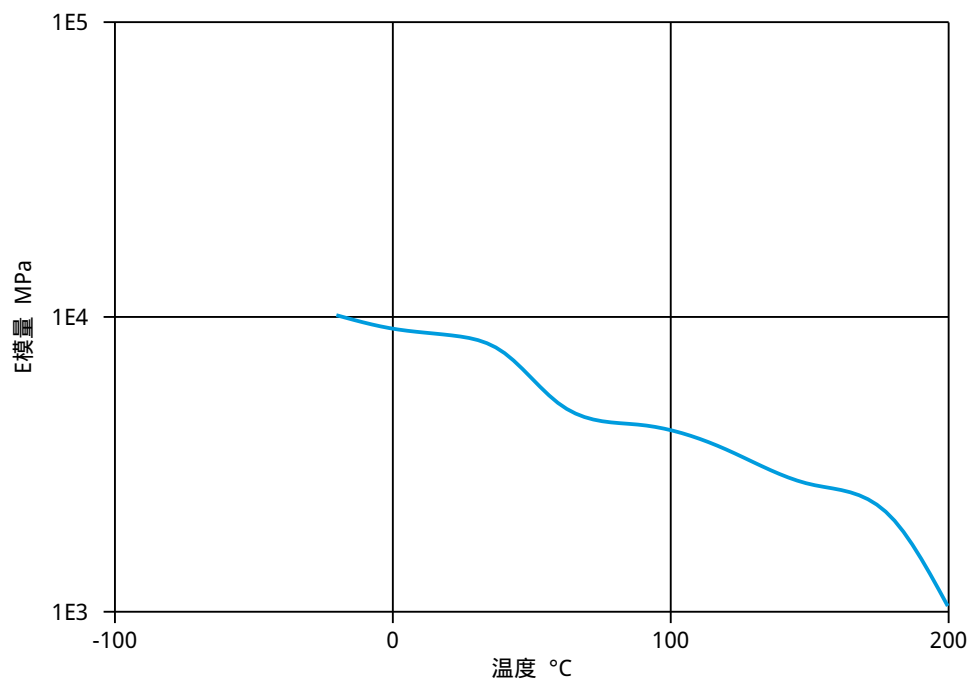




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NYLON RESIN

拉伸模量 - 温度 (dry)

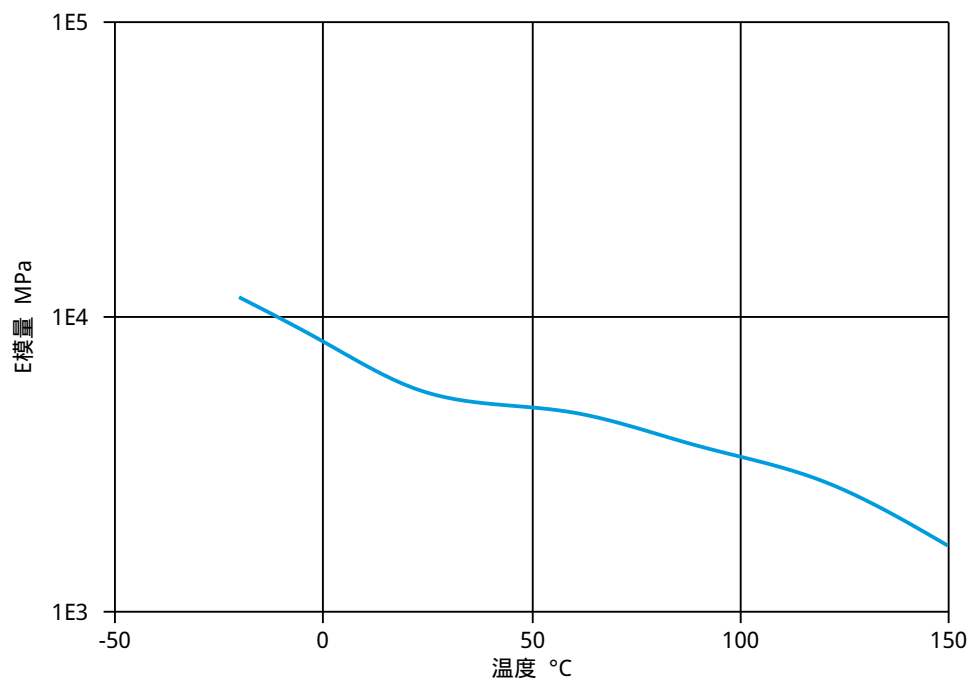




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NYLON RESIN

拉伸模量 - 温度 (cond.)





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## 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

#### 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
- ✓ 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

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### 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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