



# Zytel® 444AHS BK152

## 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® 444AHS BK152是一种增韧, 热稳定, 尼龙66

### 总说明

树脂鉴别	PA66-I	ISO 1043
制品标识码	>PA66-I<	ISO 11469
ISO名称	ISO 16396-PA66-I,,M1CG1H,S14-020	

### 流变性能

	dry/cond.		
模塑收缩率, 平行	1.4/-	%	ISO 294-4, 2577
模塑收缩率, 垂直	1.2/-	%	ISO 294-4, 2577

### 机械性能

	dry/cond.		
拉伸模量	2400/1100	MPa	ISO 527-1/-2
屈服应力	62/40	MPa	ISO 527-1/-2
屈服伸长率	5.5/15	%	ISO 527-1/-2
名义断裂伸长率	25/>50	%	ISO 527-1/-2
弯曲模量	2270/-	MPa	ISO 178
悬臂梁缺口冲击强度, 23°C	16/-	kJ/m <sup>2</sup>	ISO 180/1A
悬臂梁缺口冲击强度, -40°C	10/-	kJ/m <sup>2</sup>	ISO 180/1A
Poisson's ratio	0.38/0.45	-	

### 热性能

	dry/cond.		
熔融温度, 10°C/min	260/*	°C	ISO 11357-1/-3
热变形温度, 1.80 MPa	65/*	°C	ISO 75-1/-2
线膨胀系数, 平行	90/*	E-6/K	ISO 11359-1/-2
线膨胀系数, 垂直	100/*	E-6/K	ISO 11359-1/-2

### 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)



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### 其它性能

	dry/cond.		
吸水性, 2mm	1.3/*	%	类似ISO 62
密度	1110/-	kg/m <sup>3</sup>	ISO 1183
吸水性, 浸泡 24小时	1.3/*	%	类似ISO 62

### 注塑

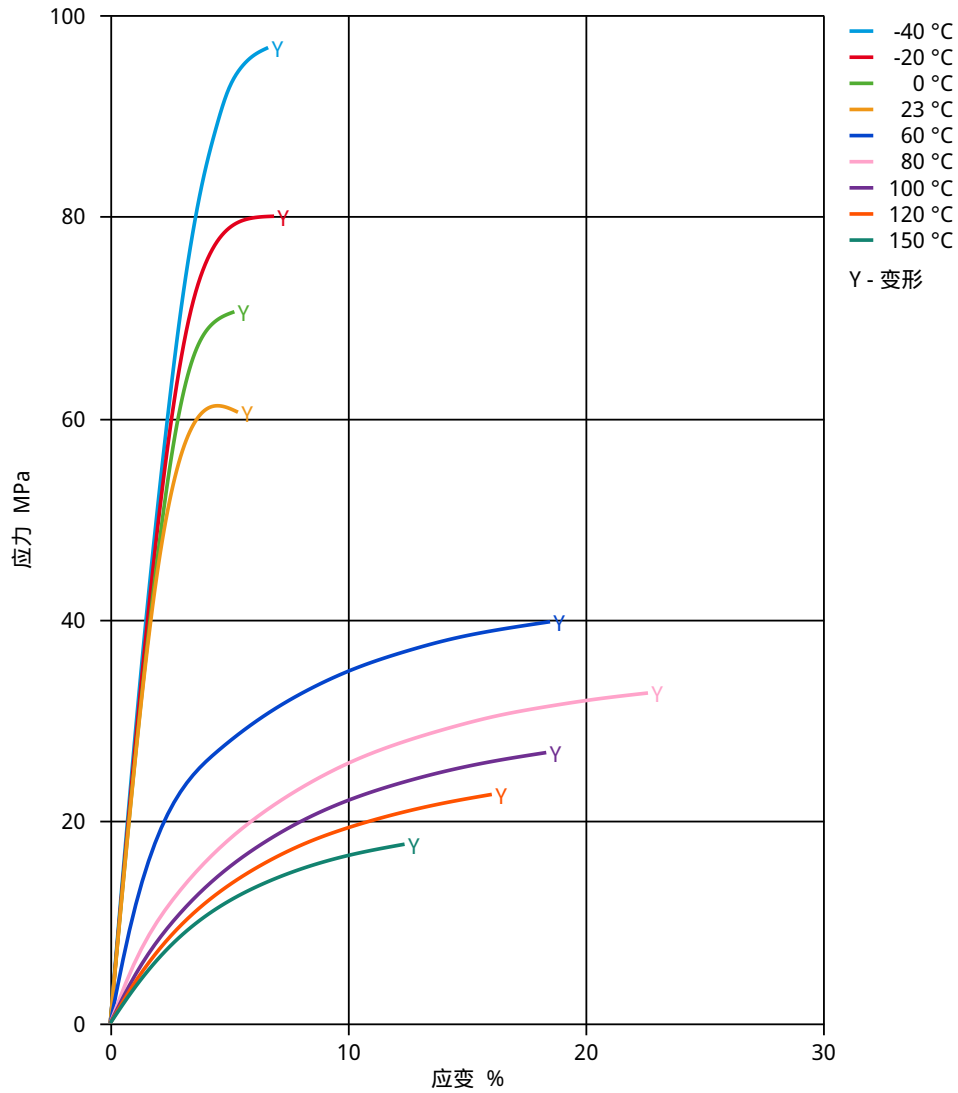
建议干燥	是
干燥温度	80 °C
干燥时间, 除湿干燥机	2 - 4 h
加工前水分含量	≤ 0.2 %
最优熔体温度	290 °C
注塑 熔体温度	280 °C
注塑 熔体温度	300 °C
螺杆最大切线速度	0.3 m/s
最优模具温度	70 °C
模具温度	50 °C
模具温度	90 °C
保压范围	50 - 100 MPa
保压时间	4 s/mm
喷射温度	190 °C



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应力 - 应变. (dry)

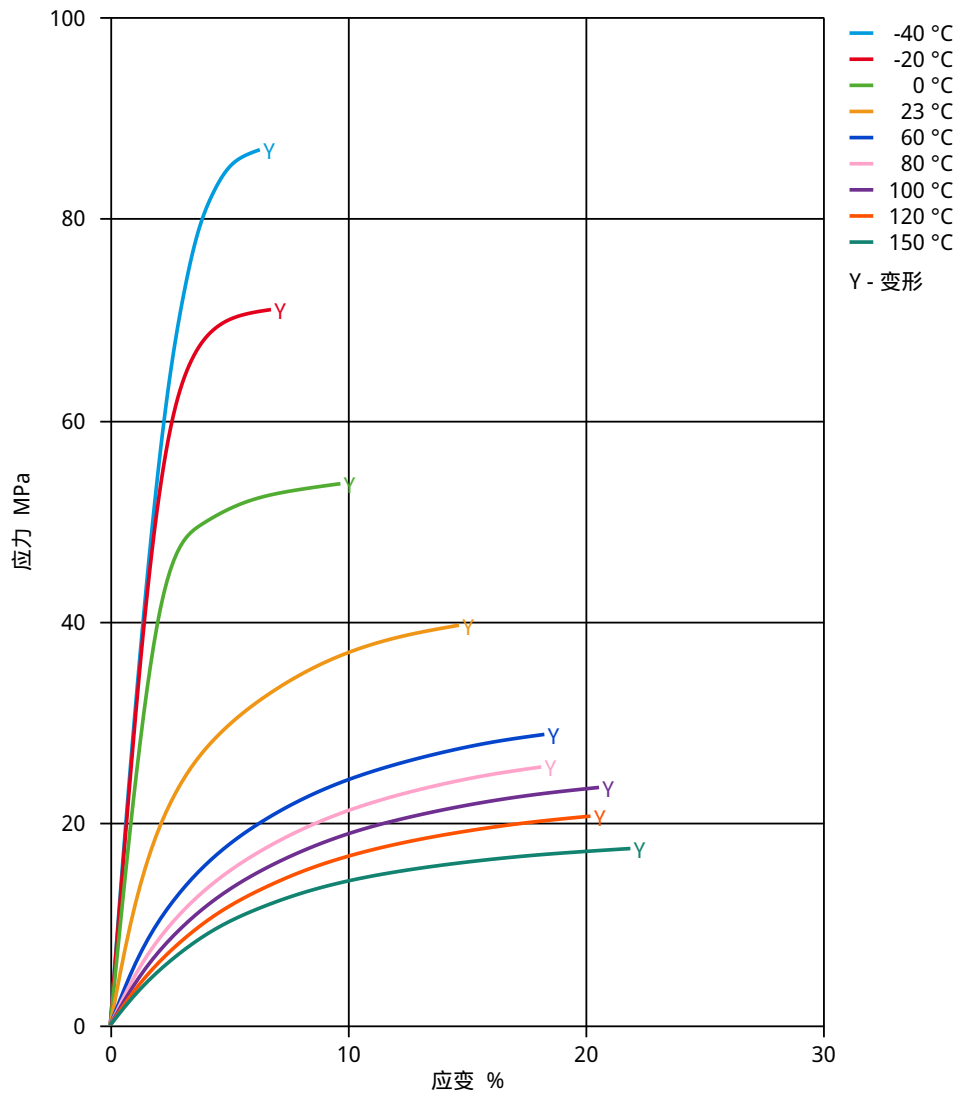




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NYLON RESIN

应力 - 应变. (cond.)

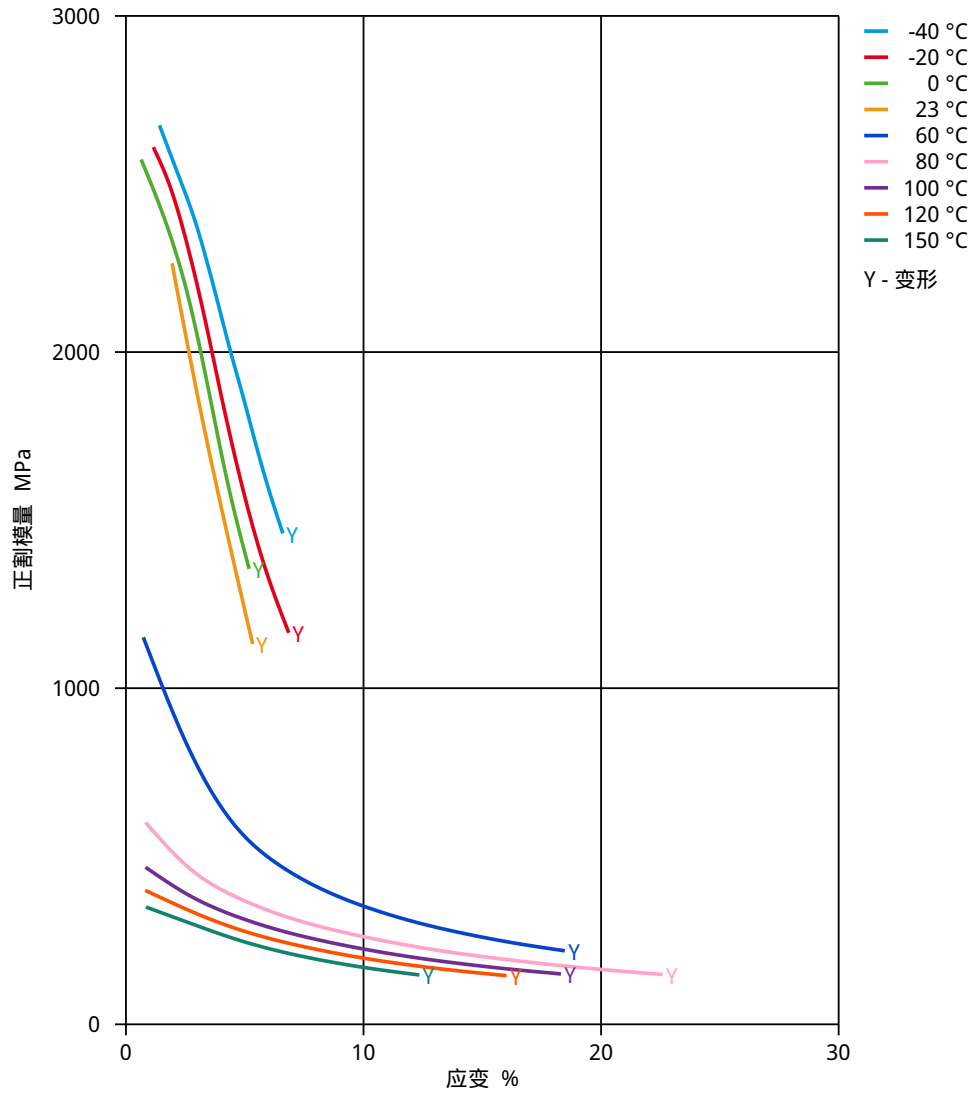




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正割模量 - 应变. (dry)

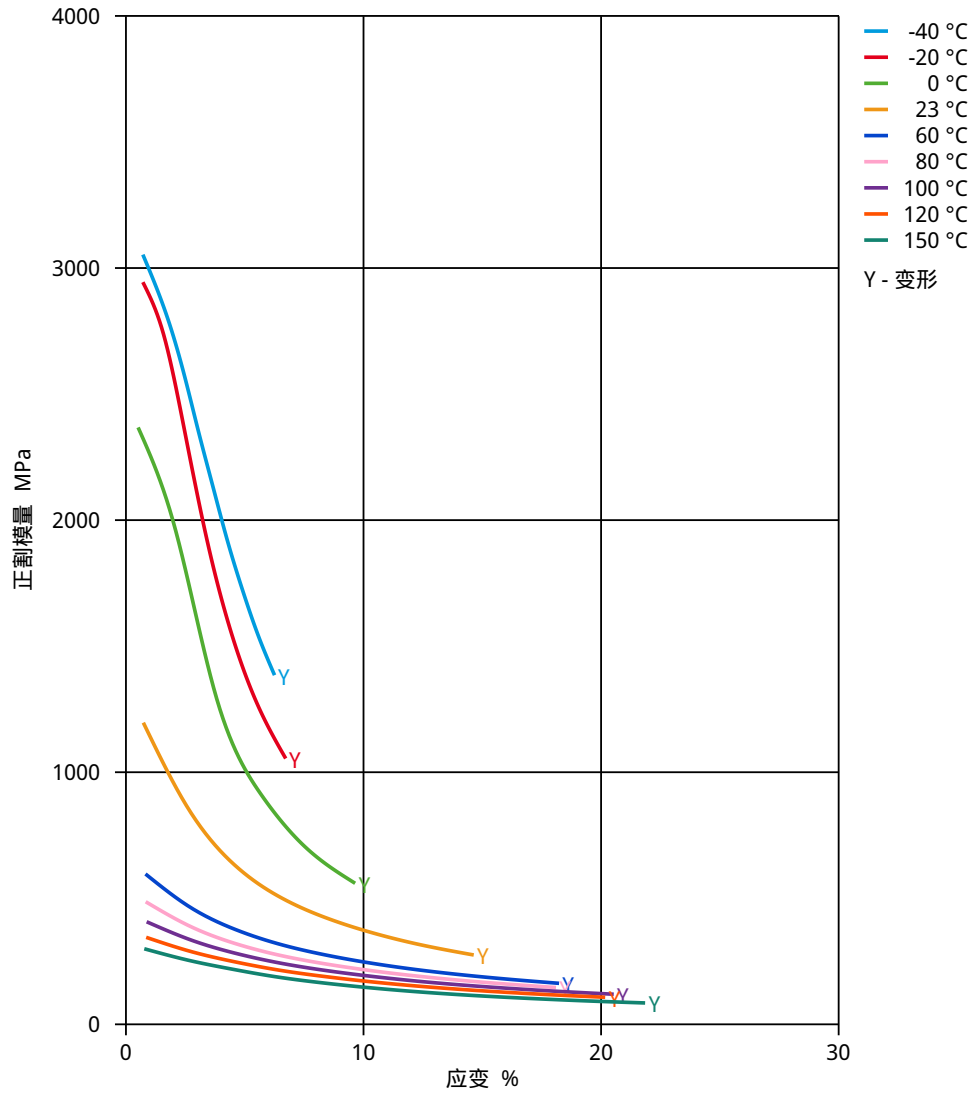




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NYLON RESIN

正割模量 - 应变. (cond.)

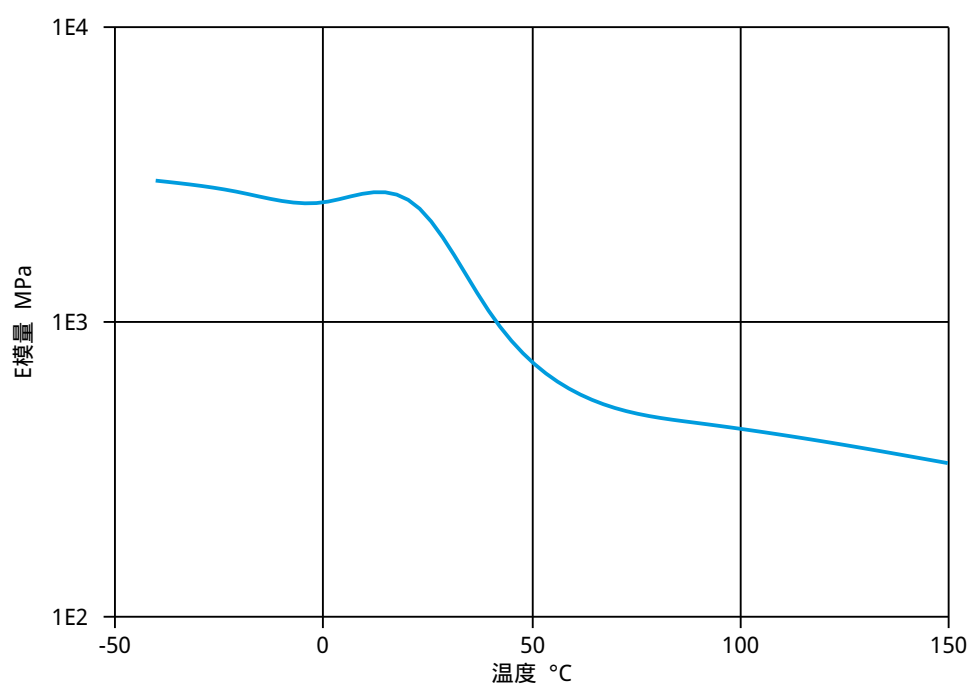




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NYLON RESIN

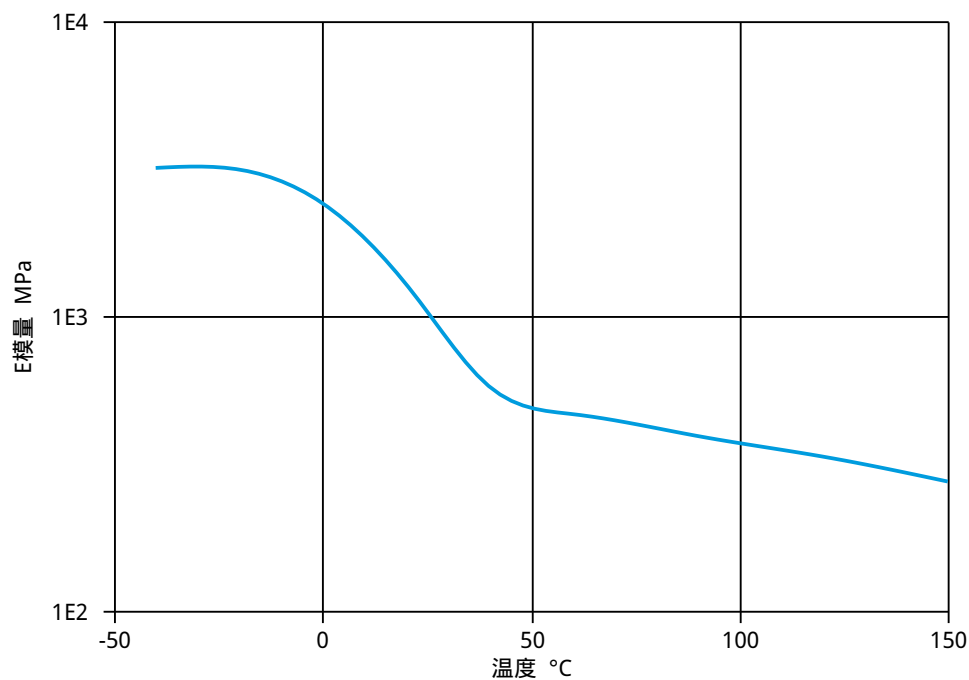
拉伸模量 - 温度 (dry)



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拉伸模量 - 温度 (cond.)



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