



Zytel® EFE7374 BK416

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® EFE7374 BK416是一种40% 玻纤增强, 增韧, 尼龙6

总说明

树脂鉴别	PA6-IGF40	ISO 1043
制品标识码	>PA6-IGF40<	ISO 11469
ISO名称	ISO 16396-PA6-I,GF40,M1CGH,S10-120	

流变性能

	dry/cond.		
粘数.	110/*	cm ³ /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	0.6/-	%	ISO 294-4, 2577

机械性能

	dry/cond.		
拉伸模量	12000/7500	MPa	ISO 527-1/-2
断裂应力	190/130	MPa	ISO 527-1/-2
断裂伸长率	3.5/7.5	%	ISO 527-1/-2
简支梁无缺口冲击强度, +23°C	110/113	kJ/m ²	ISO 179/1eU
简支梁无缺口冲击强度, -30°C	118/105	kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	24/33	kJ/m ²	ISO 179/1eA
简支梁缺口冲击强度, -30°C	17/18	kJ/m ²	ISO 179/1eA
悬臂梁缺口冲击强度, 23°C	24/30	kJ/m ²	ISO 180/1A
悬臂梁缺口冲击强度, -30°C	19/18	kJ/m ²	ISO 180/1A
Poisson's ratio	0.33/0.34	-	

热性能

	dry/cond.		
熔融温度, 10°C/min	221/*	°C	ISO 11357-1/-3
热变形温度, 1.80 MPa	212/*	°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	33 mm/min	ISO 3795 (FMVSS 302)

其它性能

	dry/cond.		
吸湿性, 2mm	1.7/*	%	类似ISO 62
吸水性, 2mm	5.4/*	%	类似ISO 62
密度	1410/-	kg/m ³	ISO 1183

注塑

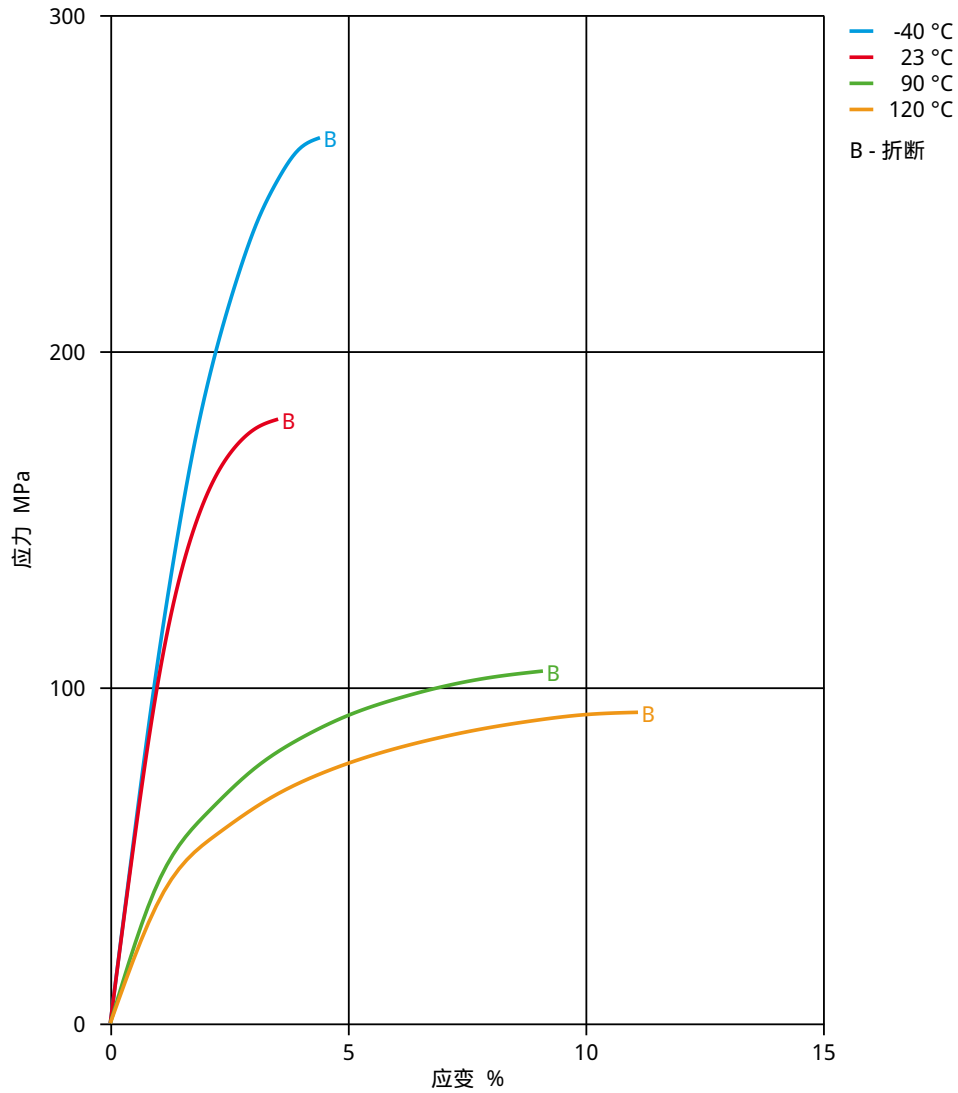
建议干燥	是
干燥温度	80 °C
干燥时间, 除湿干燥机	2 - 4 h
加工前水分含量	≤ 0.2 %
优良熔体温度	270 °C
注塑 熔体温度	260 °C
注塑 熔体温度	280 °C
螺杆大的切线速度	0.2 m/s
优良模具温度	100 °C
模具温度	50 °C
模具温度	90 °C
保压范围	50 - 100 MPa
保压时间	3 s/mm



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应力 - 应变. (dry)

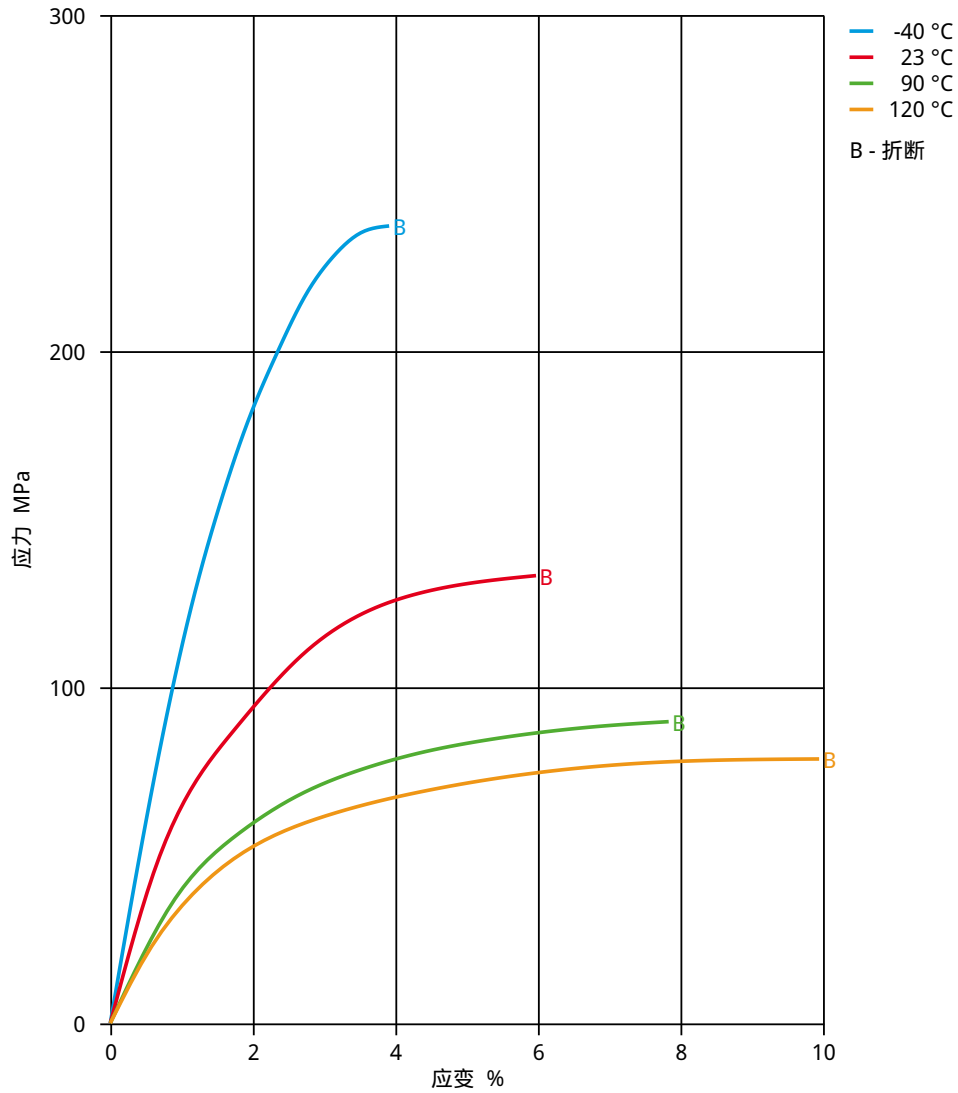




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应力 - 应变. (cond.)

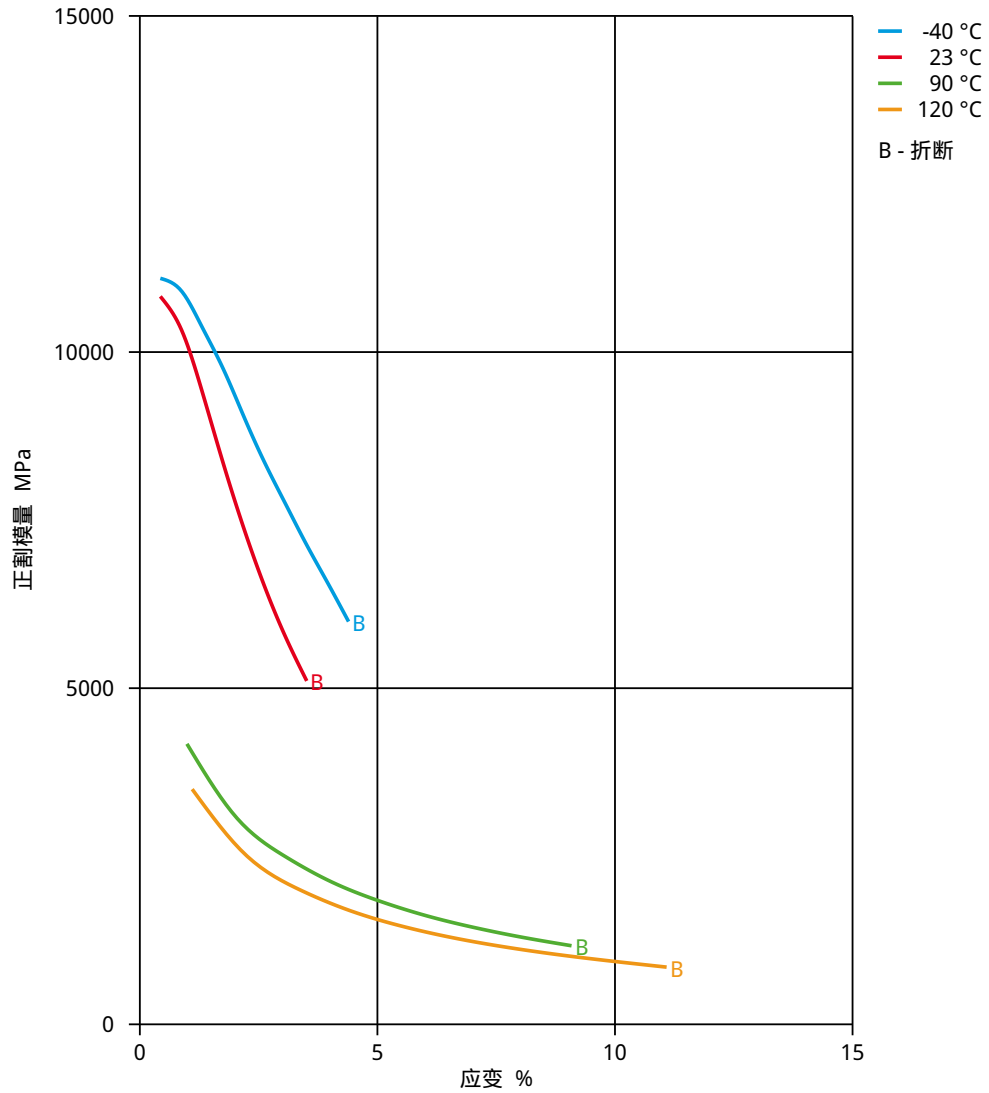




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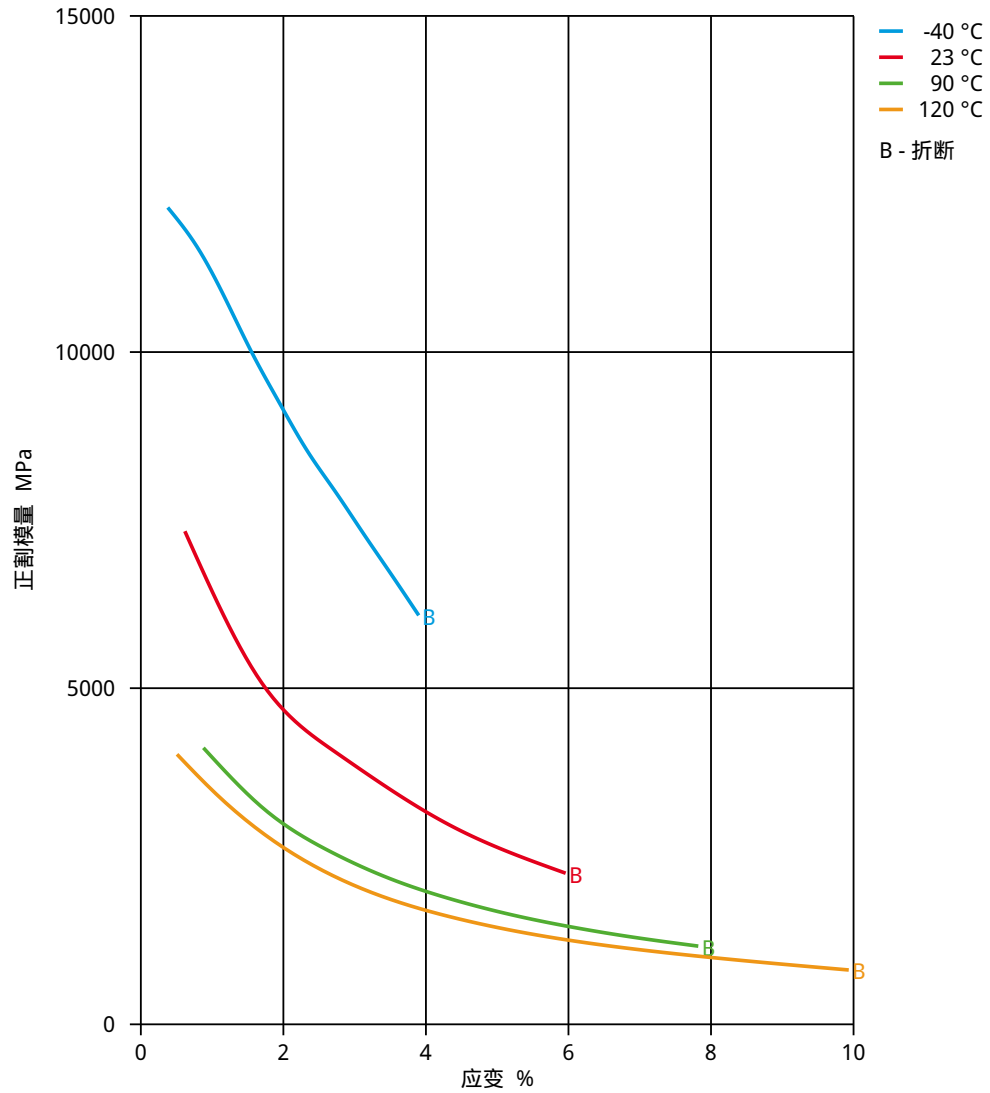
正割模量 - 应变. (dry)



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正割模量 - 应变. (cond.)

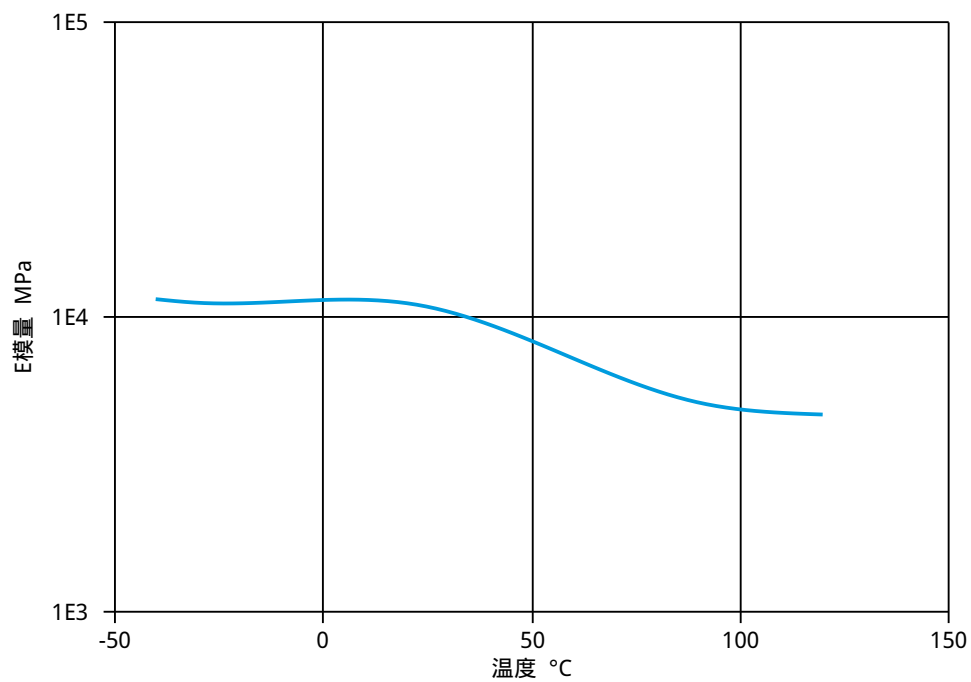




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拉伸模量 - 温度 (dry)

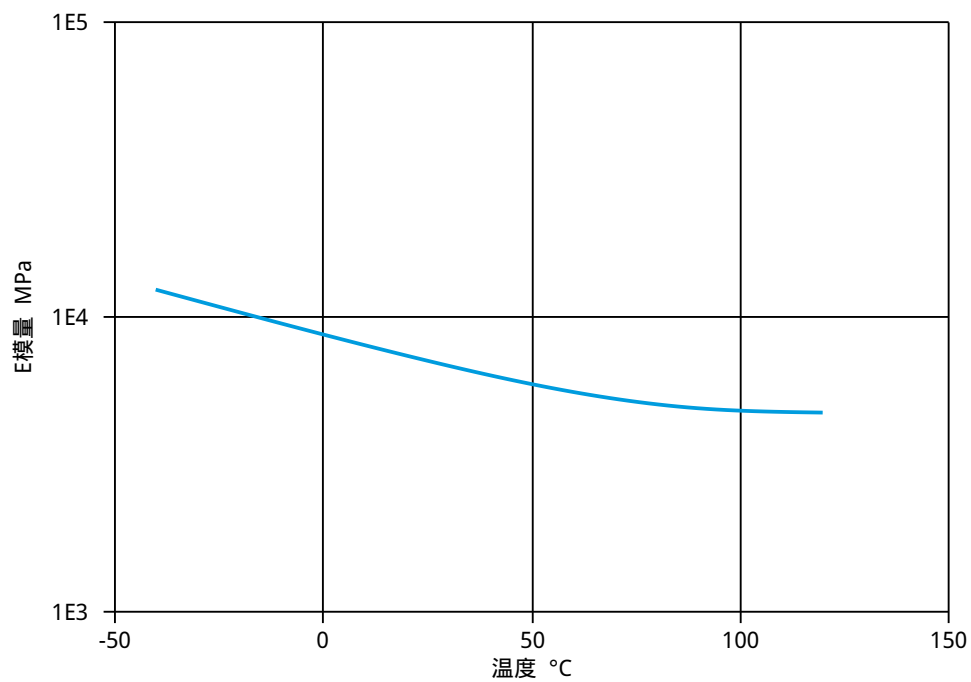




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拉伸模量 - 温度 (cond.)





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耐化学性

盐溶液

✘ 氯化锌溶液 (50g/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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