

DuPont™ Zytel® HTN51G35FWS BK083

HIGH PERFORMANCE POLYAMIDE RESIN

产品
Zytel® HTN51G35FWS BK083 is a 35% glass reinforced, heat stabilized, lubricated, hydrolysis resistant high performance polyamide resin with improved fatigue and welding strength performance. It is also a PPA resin.

总说明	数值	单位	测试标准
树脂鉴别	PA6T/XT-GF35	-	ISO 1043
产品标识码	PA6T/XT-GF35	-	ISO 11469
产品标识码	>PPA-GF35<	-	SAE J1344
流变性能	干态/调节后	单位	测试标准
粘数	120 / *	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	0.5 / -	%	ISO 294-4, 2577
机械性能	干态/调节后	单位	测试标准
拉伸模量	13000 / 13000	MPa	ISO 527-1/-2
断裂应力	230 / 210	MPa	ISO 527-1/-2
断裂伸长率	2.6 / 2.6	%	ISO 527-1/-2
简支梁缺口冲击强度, +23°C	11 / -	kJ/m ²	ISO 179/1eA
热性能	干态/调节后	单位	测试标准
熔融温度, 10°C/min	302 / *	°C	ISO 11357-1/-3
玻璃化转变温度, 10°C/min	135 / 95	°C	ISO 11357-1/-2
热变形温度, 1.80 MPa	263 / *	°C	ISO 75-1/-2
线膨胀系数, 平行	38 / *	E-6/K	ISO 11359-1/-2
线膨胀系数, 垂直	80 / *	E-6/K	ISO 11359-1/-2
燃烧性能	数值	单位	测试标准
FMVSS Class	B	-	ISO 3795 (FMVSS 302)
燃烧速率, 厚度: 1毫米	23	mm/min	ISO 3795 (FMVSS 302)
其它性能	干态/调节后	单位	测试标准
密度	1470 / -	kg/m ³	ISO 1183
VDA性能	数值	单位	测试标准
气味测试	4	class	VDA 270
注塑	数值	单位	测试标准
建议干燥	是	-	-
干燥温度	≥ 100	°C	-
干燥时间, 除湿干燥机	6 - 8	h	-
加工前水分含量	≤ 0.1	%	-
最优熔体温度	325	°C	-
注塑 熔体温度	320	°C	-
注塑 熔体温度	330	°C	-
最优模具温度	150	°C	-
模具温度	140 ⁽¹⁾	°C	-
模具温度	180	°C	-

1: Higher temperature needed for thinner sections.

典型数据

加工方法	• 注塑
特殊性能	• 热稳定、耐热的

成型

注塑

During molding, use proper protective equipment and adequate ventilation. Avoid exposure to fumes and limit the hold up time and temperature of the resin in the machine. Purge degraded resin carefully with HDPE.

When lower mold temperatures are used, the initial warpage and shrinkage may be lower, but the surface appearance and chemical resistance may be reduced, and the dimensional change may be greater when parts are subsequently heated.

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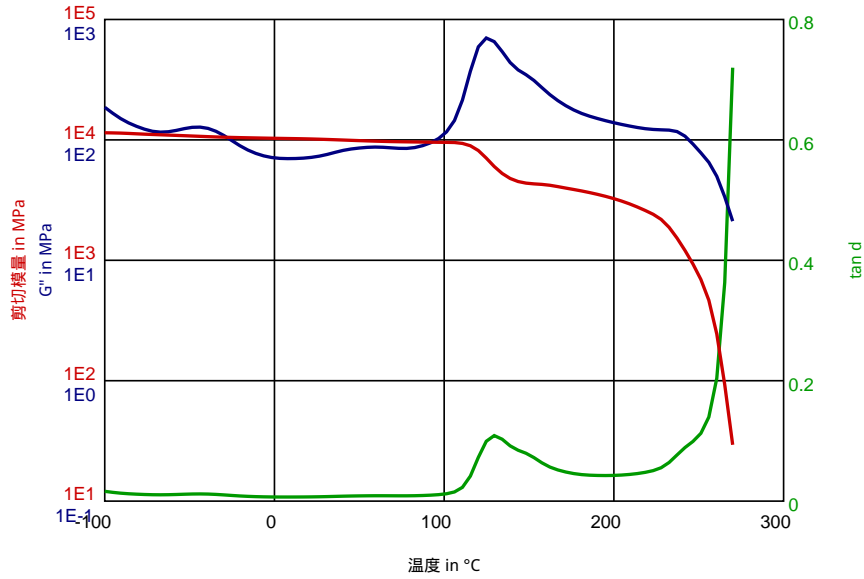


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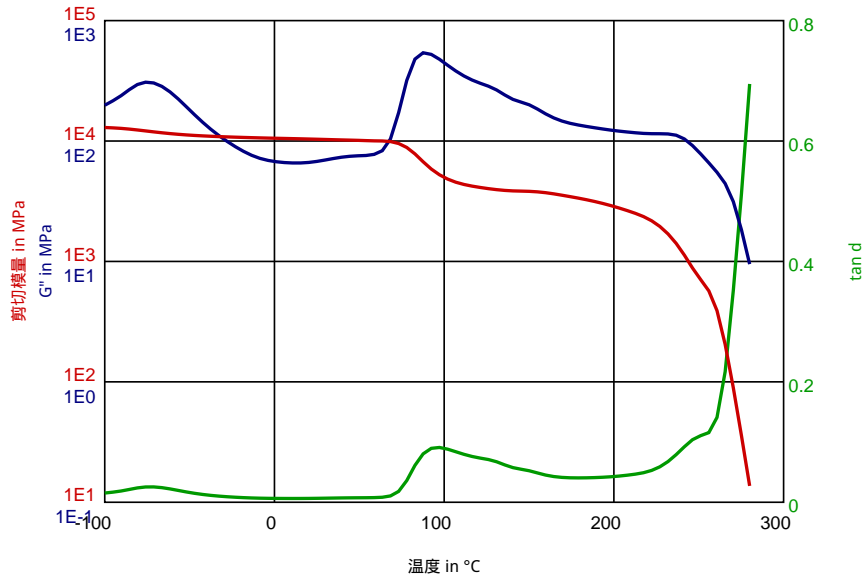
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图表

动态剪切模量 - 温度 (干)



动态剪切模量 - 温度 (湿)



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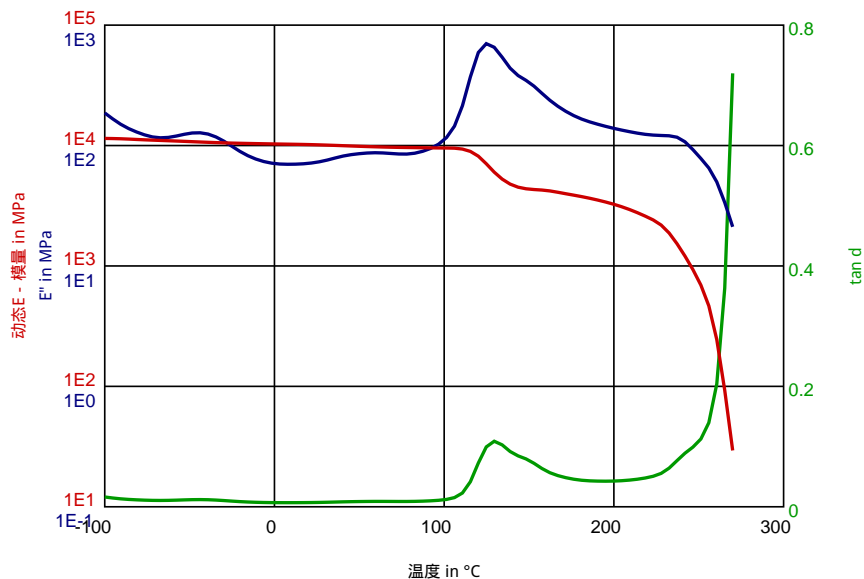
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动态E - 模量 - 温度 (干)



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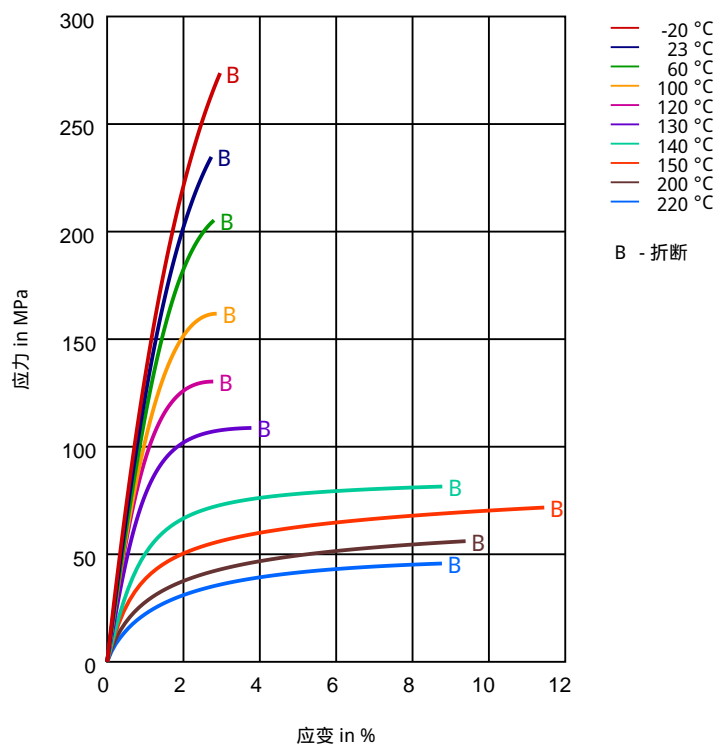


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应力 - 应变. (干)



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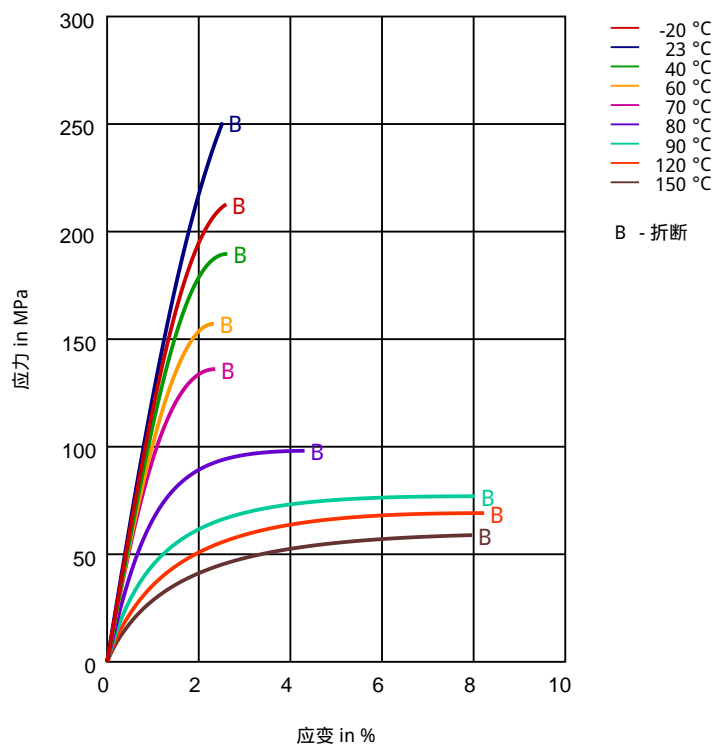
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应力 - 应变. (湿)



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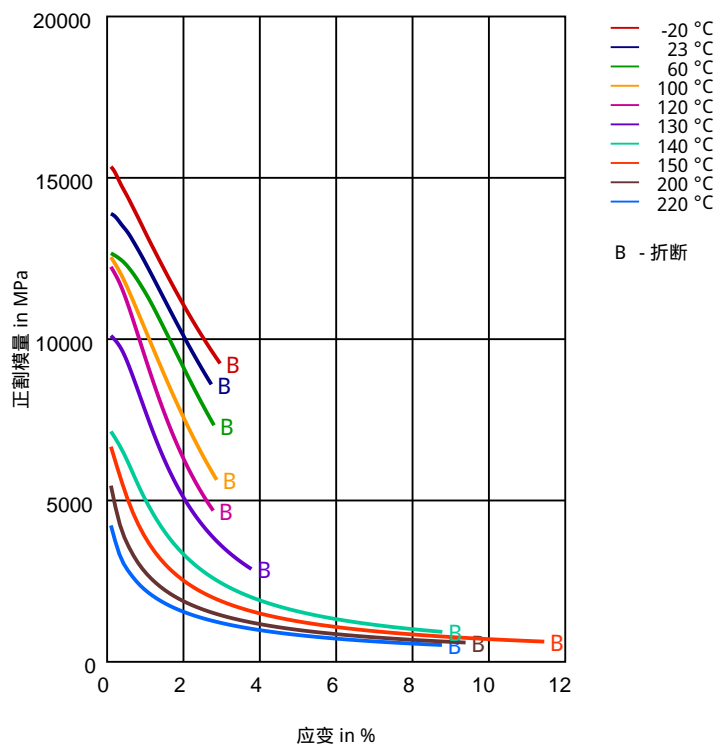


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HIGH PERFORMANCE POLYAMIDE RESIN

正割模量 - 应变. (干)



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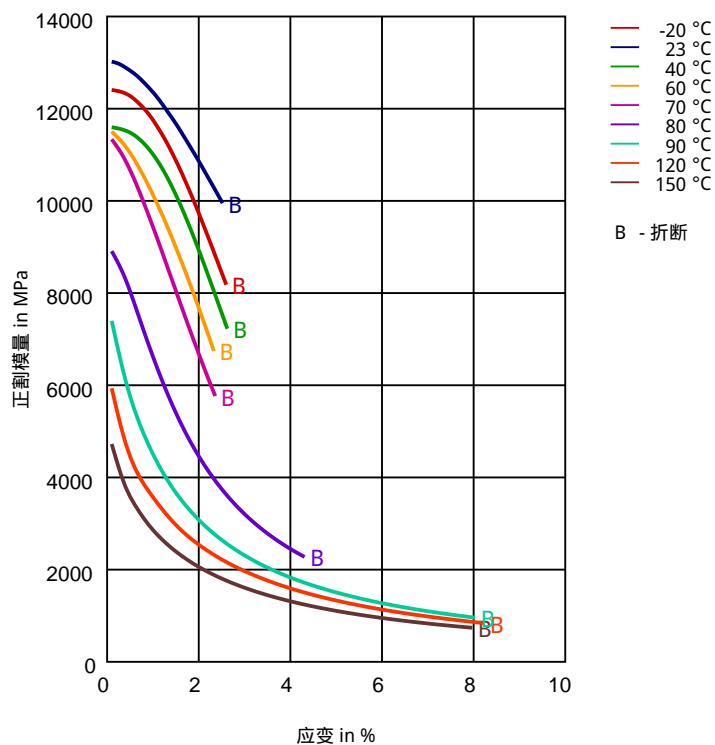


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正割模量 - 应变. (湿)



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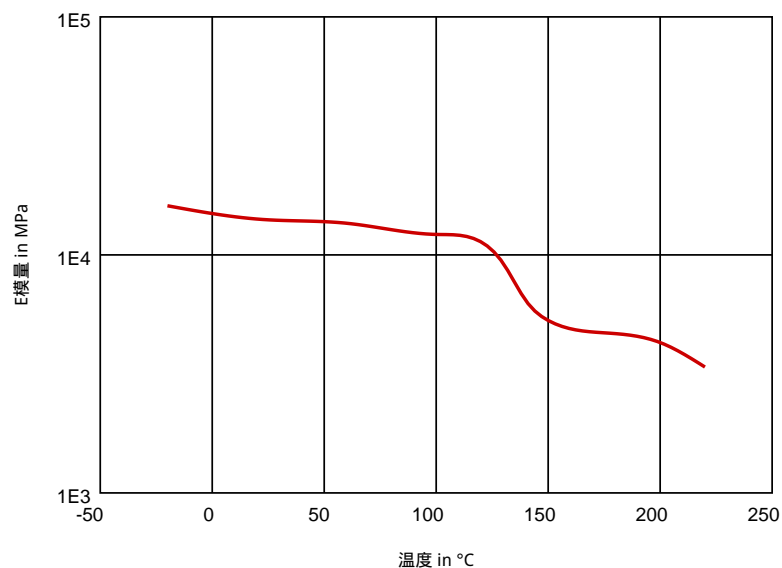


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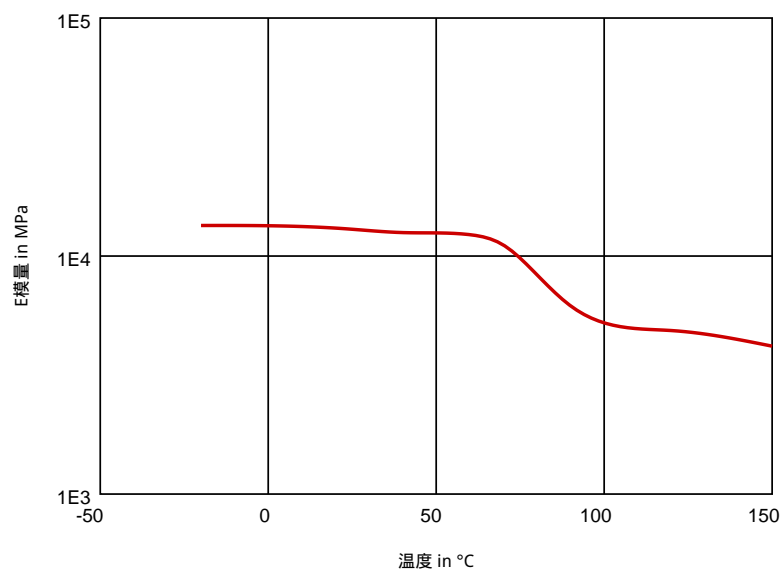
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拉伸模量 - 温度(干)



拉伸模量 - 温度(湿)



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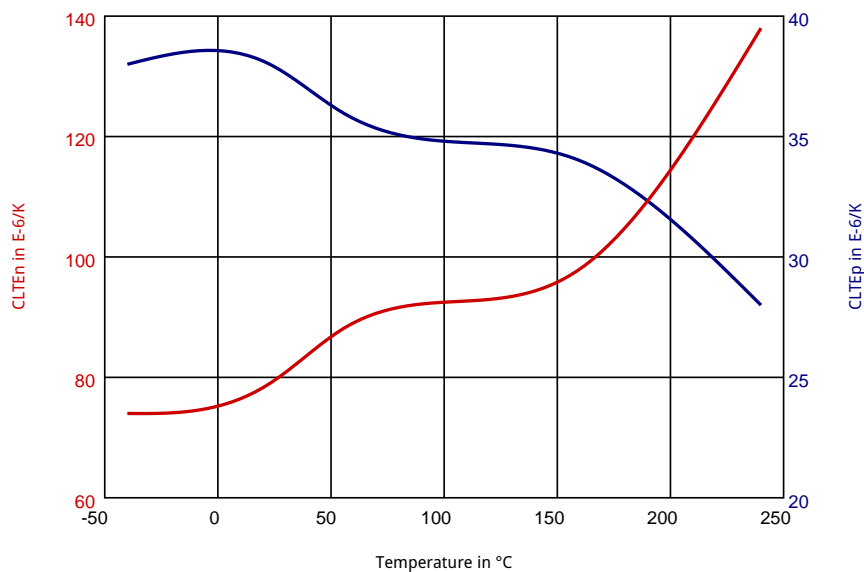
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HIGH PERFORMANCE POLYAMIDE RESIN

Coeff. of linear thermal expansion, normal



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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)

其它

- ✓ 乙二醇水溶液 (50g/100g) (108°C)
- ✓ 水 (23°C)
- ✓ 去离子水 (90°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).

- X 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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