



Zytel® 73G40T NC010 (PRELIMINARY)

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® 73G40T NC010是一种40% 玻纤增强, 增韧, 尼龙6

总说明

ISO名称

ISO 16396-PA6-I,GF40,M1NGR,S12-120

流变性能

模塑收缩率, 平行

dry/cond.

0.1/-^[DS] %

ISO 294-4, 2577

模塑收缩率, 垂直

0.5/-^[DS] %

ISO 294-4, 2577

[DS]: Derived from similar grade

机械性能

拉伸模量

dry/cond.

12000/8500 MPa

ISO 527-1/-2

断裂应力

200/140 MPa

ISO 527-1/-2

断裂伸长率

3.5/6.5 %

ISO 527-1/-2

弯曲模量

11000/8000 MPa

ISO 178

弯曲强度

300/190 MPa

ISO 178

简支梁无缺口冲击强度, +23°C

100/100 kJ/m²

ISO 179/1eU

简支梁无缺口冲击强度, -30°C

100/100^[DS] kJ/m²

ISO 179/1eU

简支梁无缺口冲击强度, -40°C

100/95 kJ/m²

ISO 179/1eU

简支梁缺口冲击强度, +23°C

20/23 kJ/m²

ISO 179/1eA

简支梁缺口冲击强度, -30°C

15/14 kJ/m²

ISO 179/1eA

简支梁缺口冲击强度, -40°C

14/14 kJ/m²

ISO 179/1eA

Poisson's ratio

0.33/0.34 -

[DS]: Derived from similar grade

热性能

熔融温度, 10°C/min

dry/cond.

220/* °C

ISO 11357-1/-3

玻璃化转变温度, 10°C/min

55/15 °C

ISO 11357-1/-2

热变形温度, 1.80 MPa

210/* °C

ISO 75-1/-2

线性热膨胀系数, 平行, -40-23°C

15/* E-6/K

ISO 11359-1/-2

线性热膨胀系数, 平行, 55-160°C

17/* E-6/K

ISO 11359-1/-2

线性热膨胀系数, 垂直, -40-23°C

52/* E-6/K

ISO 11359-1/-2

线膨胀系数, 垂直, 55-160°C

125/* E-6/K

ISO 11359-1/-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	<80 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	5.3/*	%	类似ISO 62
密度	1440/-	kg/m ³	ISO 1183
吸水性, 浸泡 24小时	1.2/* ^[1]	%	类似ISO 62

[1]: 2mm thickness

注塑

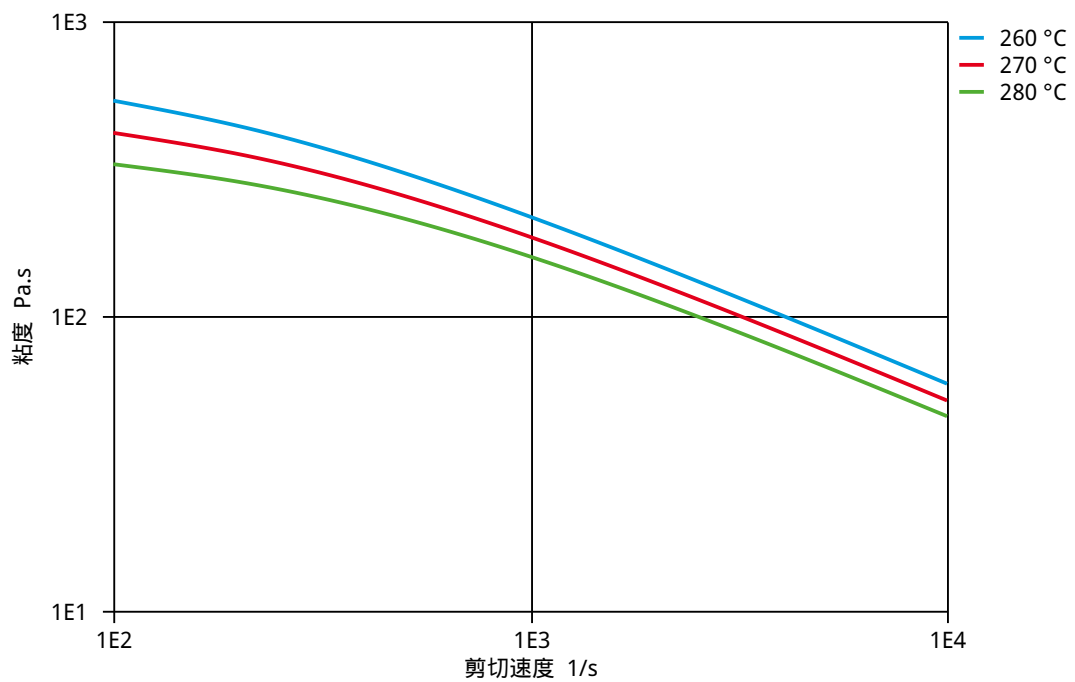
建议干燥	是
干燥温度	80 °C
干燥时间, 除湿干燥机	2 - 4 h
加工前水分含量	≤ 0.2 %
优良熔体温度	270 °C
注塑 熔体温度	260 °C
注塑 熔体温度	280 °C
螺杆大的切线速度	0.2 m/s
优良模具温度	100 °C
模具温度	70 °C
模具温度	120 °C
保压范围	50 - 100 MPa
保压时间	3 s/mm



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粘度 - 剪切速度

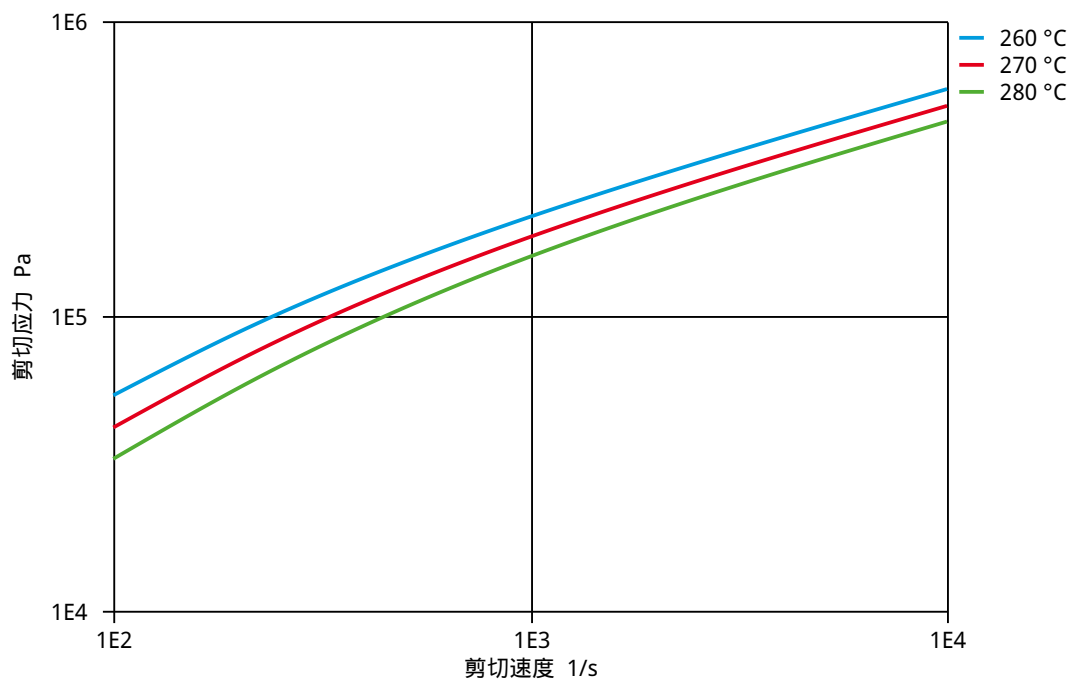




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剪切应力 - 剪切速度

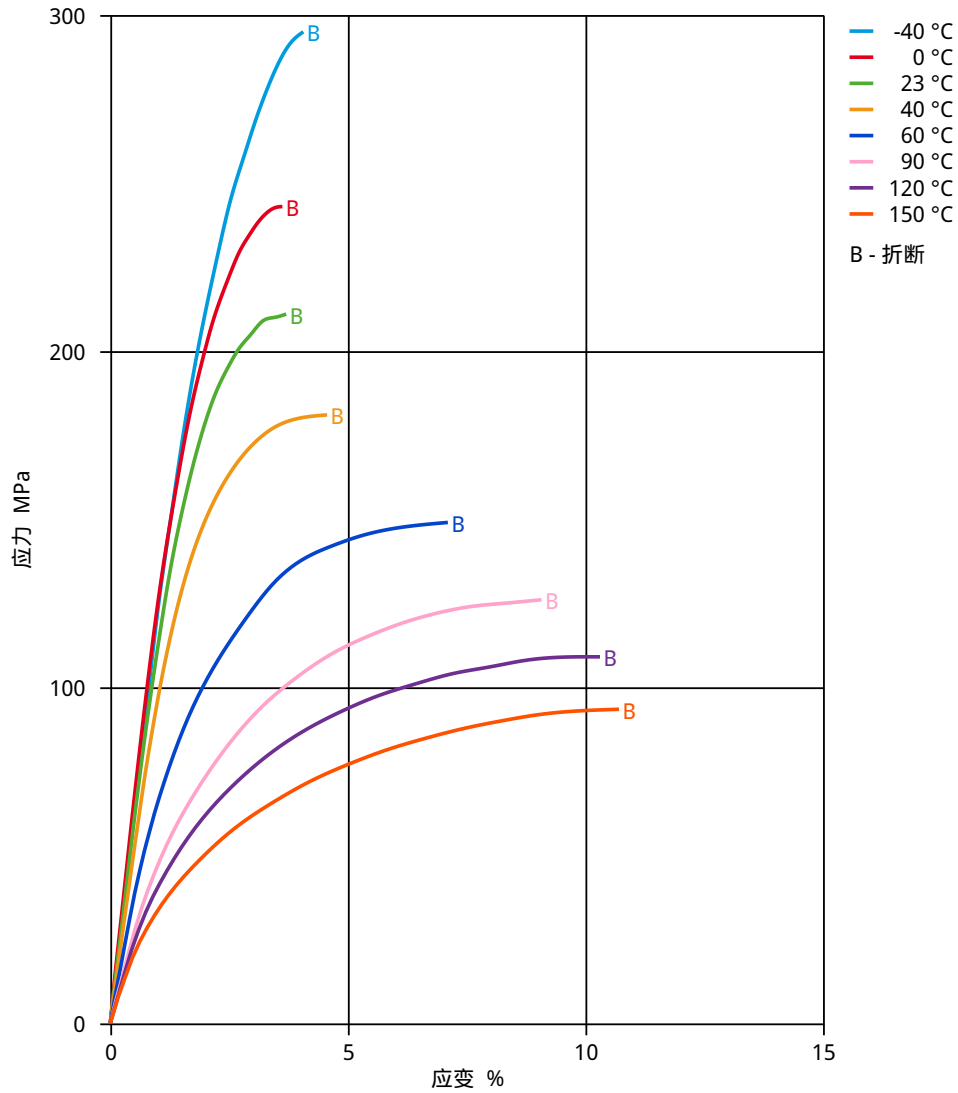




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应力 - 应变. (dry)

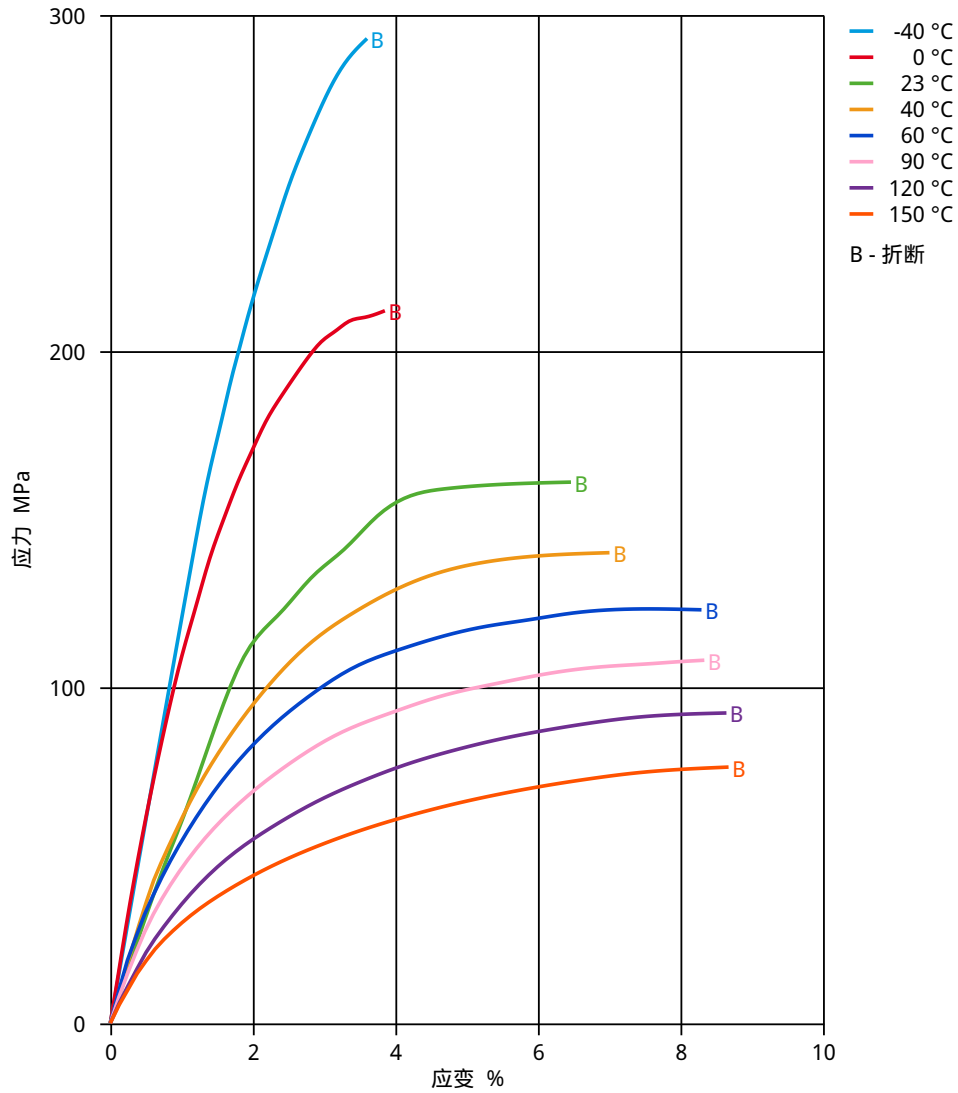




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应力 - 应变. (cond.)

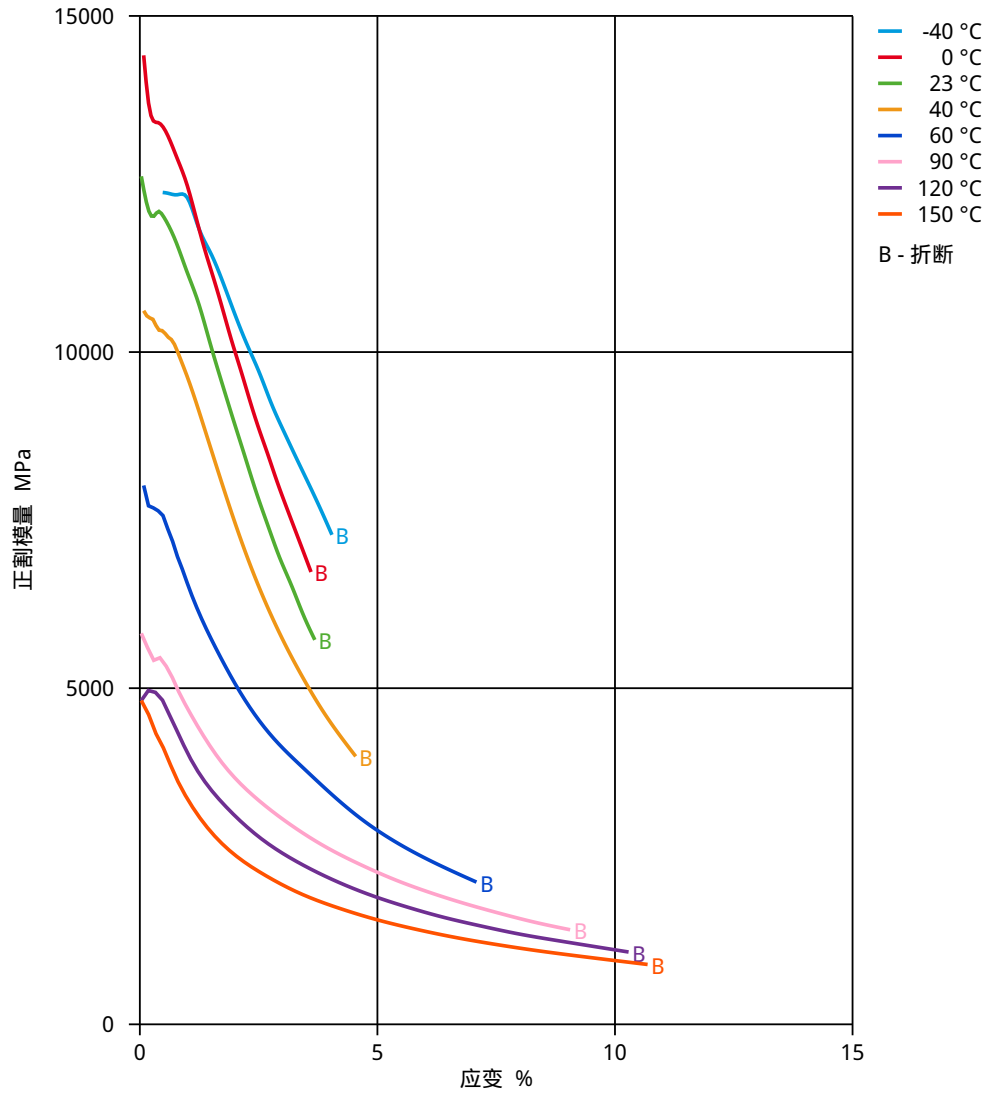




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正割模量 - 应变. (dry)

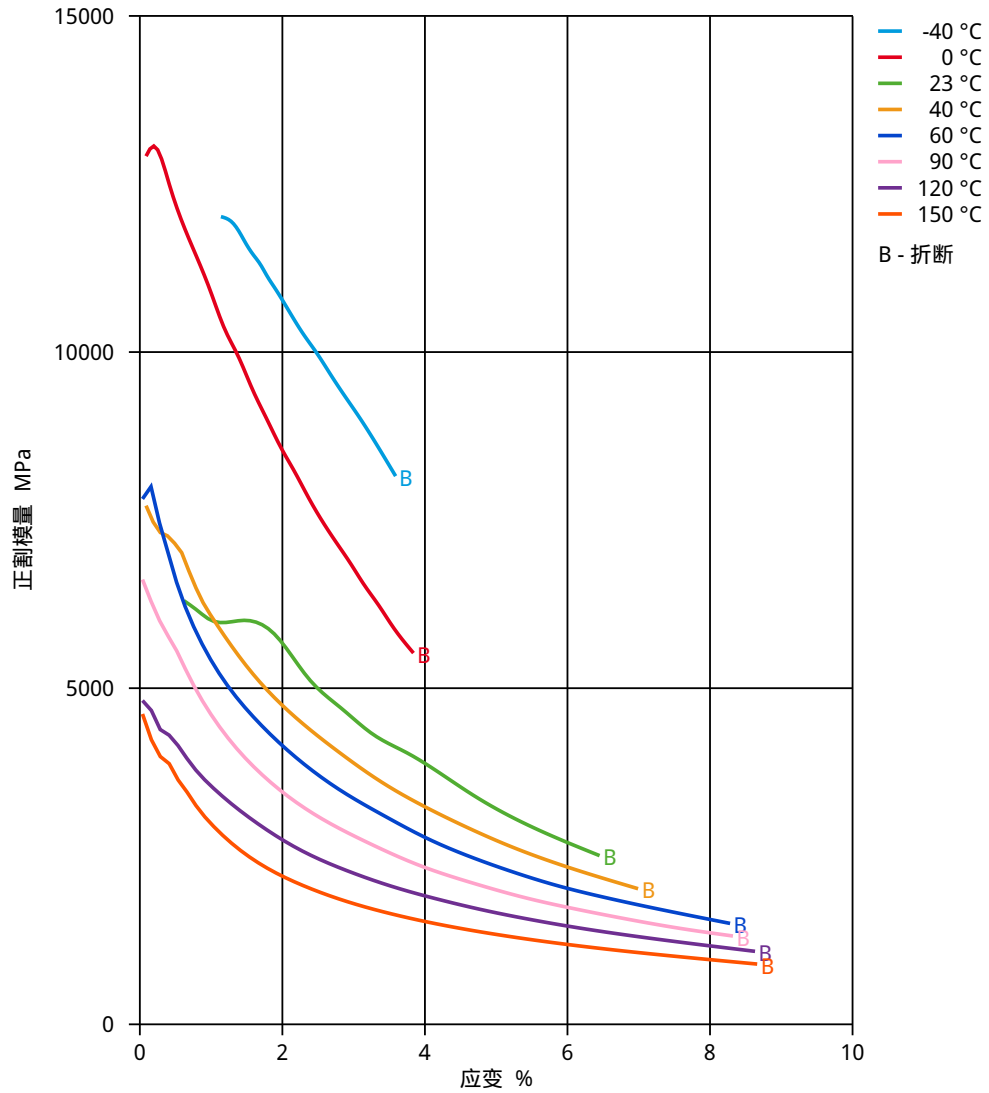




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正割模量 - 应变. (cond.)

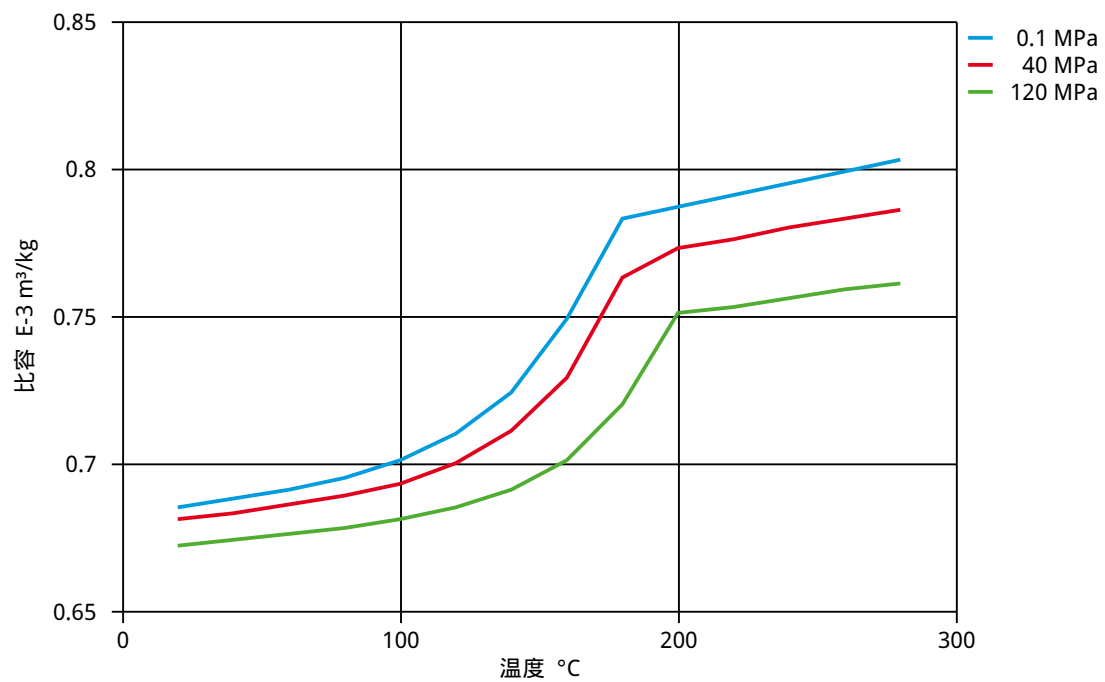




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比容 - 温度(pvT)

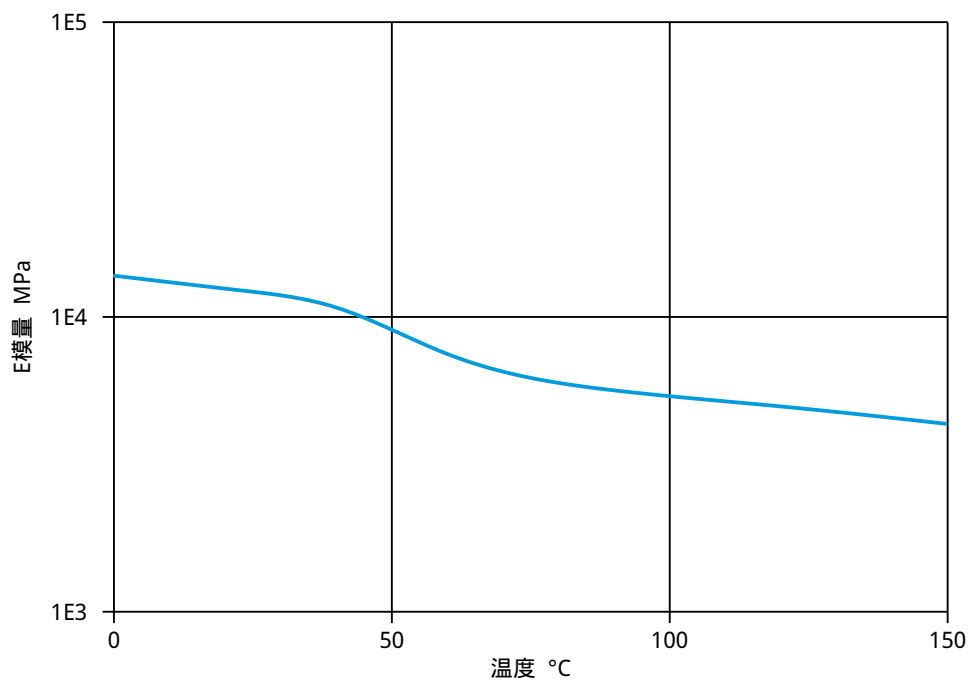




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拉伸模量 - 温度 (dry)

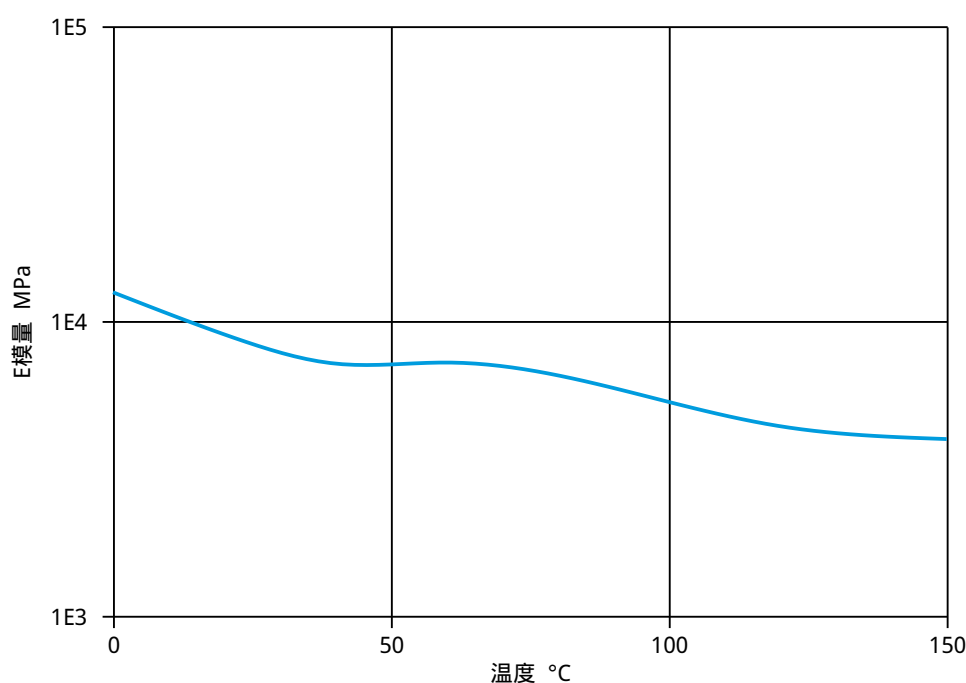




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拉伸模量 - 温度 (cond.)



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The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

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