Zytel® HTNFR52G30GWNH (PRELIMINARY)

HIGH PERFORMANCE POLYAMIDE RESIN

Zytel® HTNFR52G30GWNH is a 30% glass reinforced, flame retardant high performance polyamide resin with improved Glow Wire performance. It is also a PPA resin and it uses a non-halogenated flame retardant.

产品信息

树脂鉴别	PA6T/66-GF30 FR(40)	ISO 1043
制品标识码	>PA6T/66-GF30 FR(40)<	ISO 11469
制品标识码	>PPA-GF30 FR<	SAE J1344
ISO名称	ISO 16396-PA6T/66,GF30 FR(40),M1F1GN,S10-110	

机械性能

	dry/cond.		
拉伸模量	11500/11000	MPa	ISO 527-1/-2
拉伸断裂应力, 5mm/min	140/110	MPa	ISO 527-1/-2
断裂伸长率, 5mm/min	1.9/2.1	%	ISO 527-1/-2
弯曲模量	11000/-	MPa	ISO 178
弯曲强度	200/-	MPa	ISO 178
简支梁无缺口冲击强度, 23°C	35/30	kJ/m²	ISO 179/1eU
简支梁无缺口冲击强度, -30°C	30/30	kJ/m²	ISO 179/1eU
简支梁无缺口冲击强度, -40°C	30/30	kJ/m²	ISO 179/1eU
简支梁缺口冲击强度, 23°C	6/5.5	kJ/m²	ISO 179/1eA
简支梁缺口冲击强度, -30°C	5.5/5	kJ/m²	ISO 179/1eA
简支梁缺口冲击强度, -40°C	5/5	kJ/m²	ISO 179/1eA

热性能

	dry/cond.		
熔融温度, 10°C/min	310/*	°C	ISO 11357-1/-3
熔融温度, 第一次升温	310/*	°C	ISO 11357-1/-3
玻璃化转变温度, 10°C/min	90/45	°C	ISO 11357-1/-3
热变形温度, 1.8 MPa	276/*	°C	ISO 75-1/-2
热变形温度, 8.00 MPa	263/*	°C	ISO 75-1/-2
球压试验	260/-	°C	IEC 60695-10-2

阻燃性能

	dry/cond.		
1.5mm名义厚度时的阻燃性	V-0/*	class	IEC 60695-11-10
测试用试样的厚度	1.5/*	mm	IEC 60695-11-10
UL认证	yes/*		UL 94
厚度为h时的阻燃性	V-0/*	class	IEC 60695-11-10
测试用试样的厚度	0.4/*	mm	IEC 60695-11-10
UL认证	yes/*		UL 94
灼热丝可燃指数, 0.4mm	960/-	°C	IEC 60695-2-12
灼热丝可燃指数, 1.5mm	960/-	°C	IEC 60695-2-12
灼热丝可燃指数, 3.0mm	960/-	°C	IEC 60695-2-12
灼热丝起燃温度, 0.4mm	775/-	°C	IEC 60695-2-12
灼热丝起燃温度, 1.5mm	850/-	°C	IEC 60695-2-13
灼热丝起燃温度, 3.0mm	875/-	°C	IEC 60695-2-13

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电性能

	dry/cond.		
相对漏电起痕指数	-/600		IEC 60112

其它性能

	dry/cond.		
吸湿率, 2mm	1.2/*	%	类似ISO 62
吸水率, 2mm	3.7/*	%	类似ISO 62
密度	1460/-	kg/m³	ISO 1183

注塑

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	%
最低熔体温度***	320	°C
最高熔体温度	325	°C
最低模具温度	90	°C
最高模具温度	130	°C
保压时间 (h表示部件的最大壁厚mm)	h²+2	s

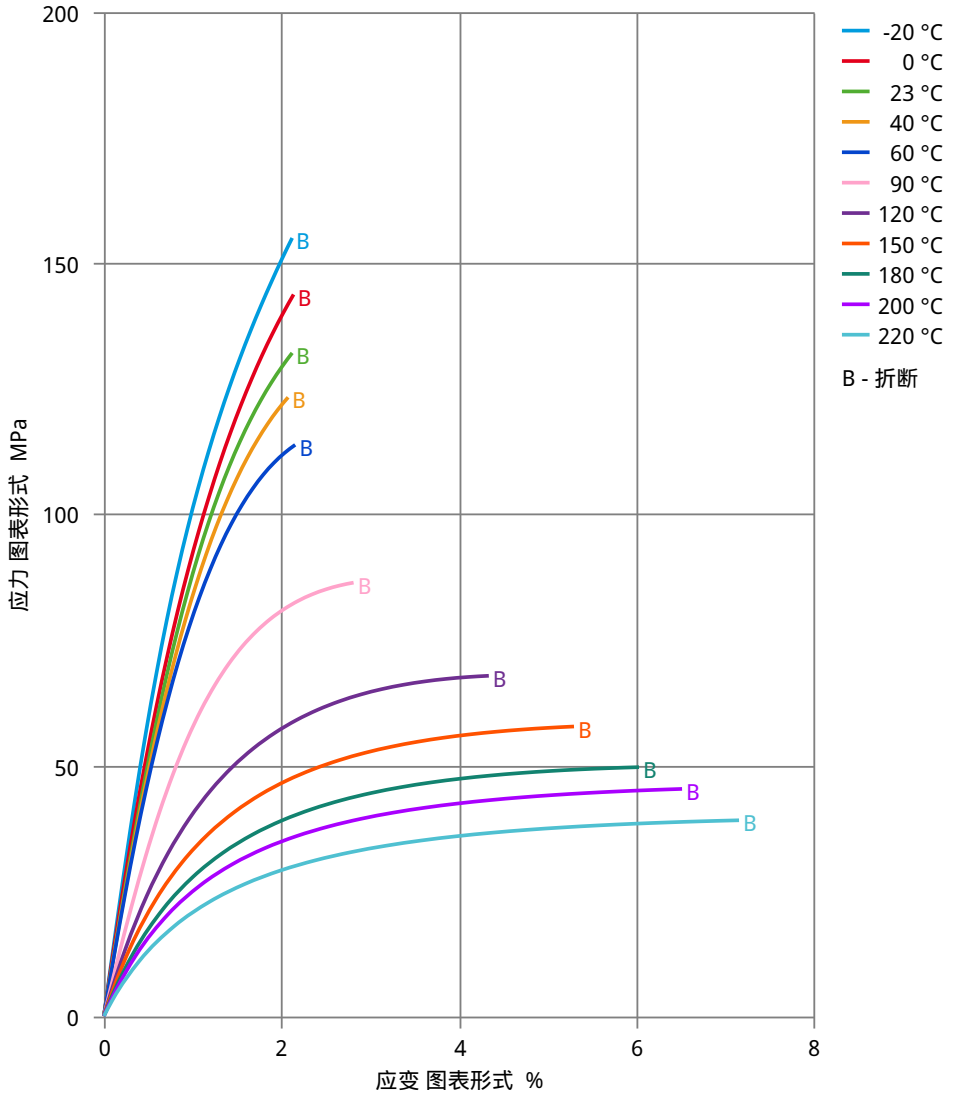
特性

加工方法	注塑
添加剂	阻燃剂, 无卤/无红磷阻燃剂
特殊性能	阻燃, 耐无铅焊接

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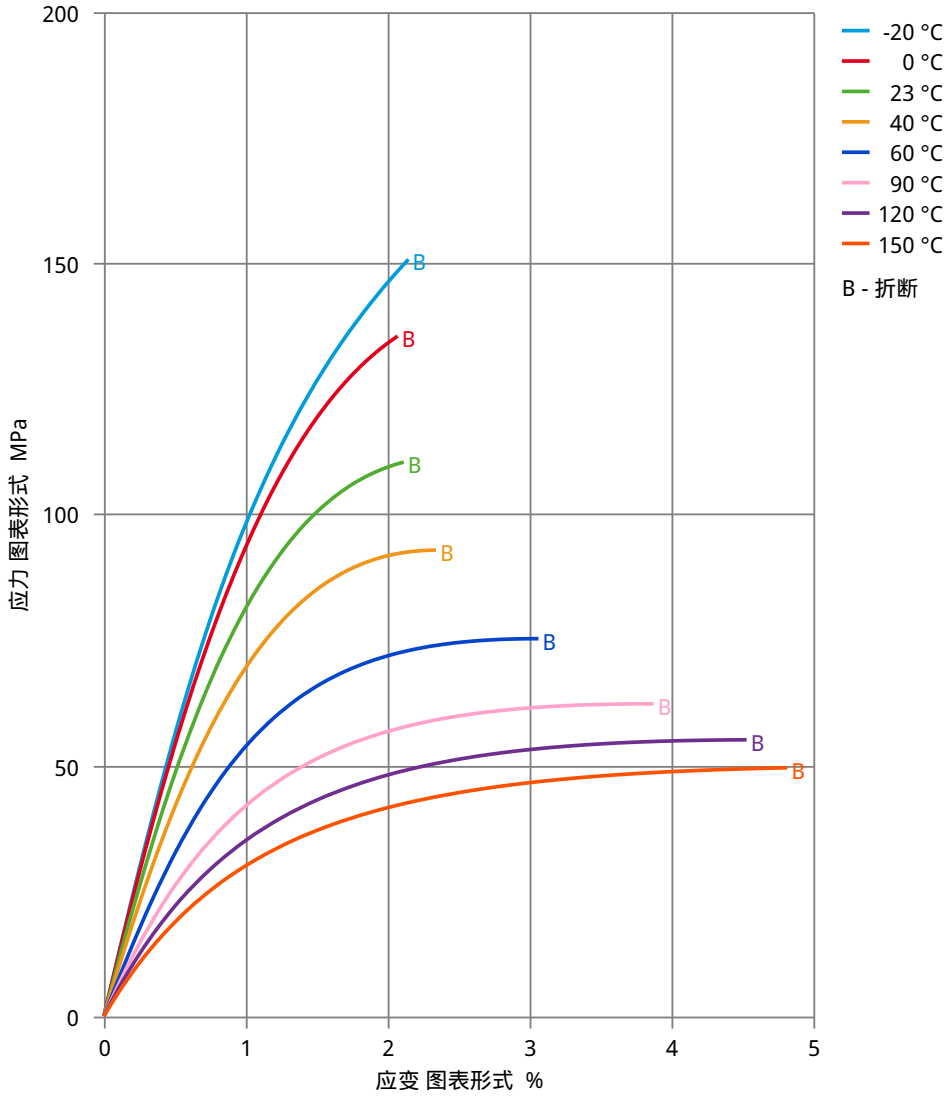
应力 - 应变 (dry)



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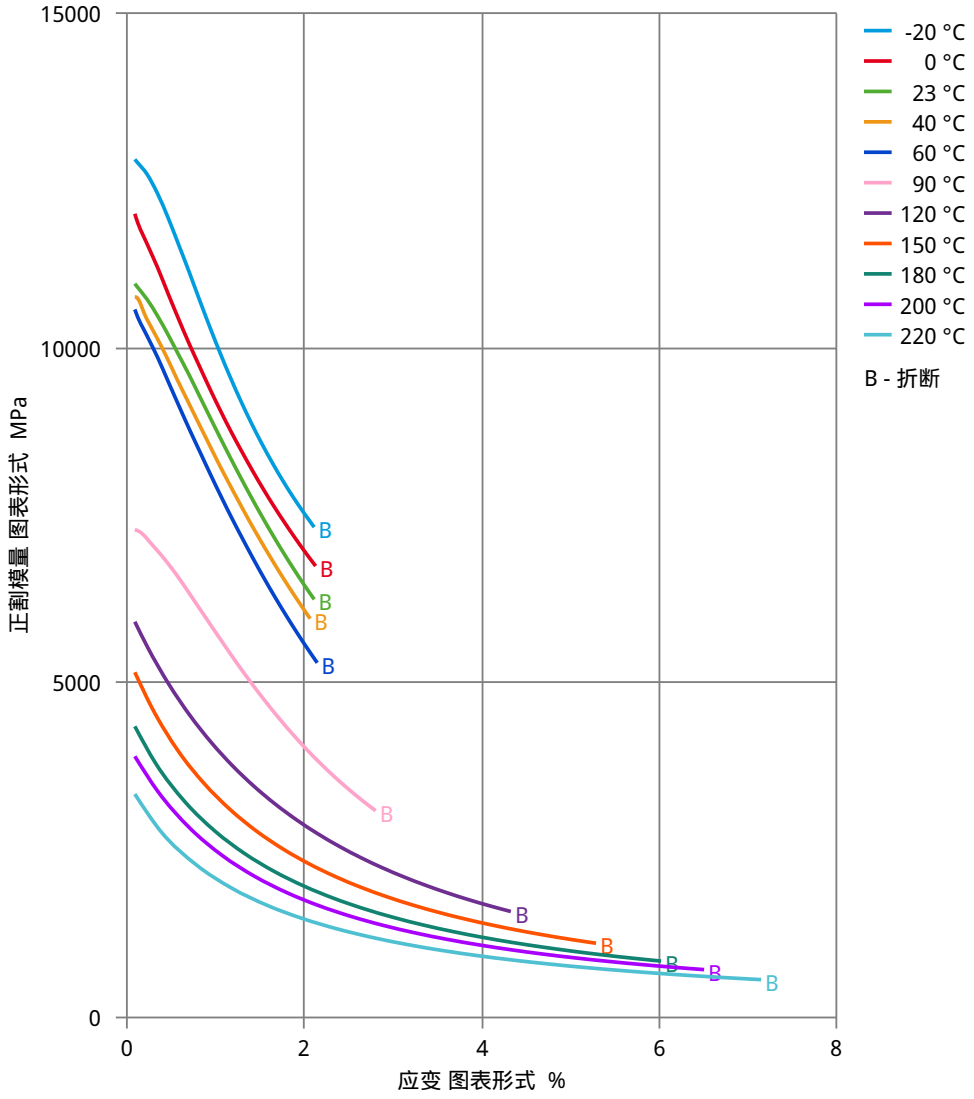
应力 - 应变 (cond.)



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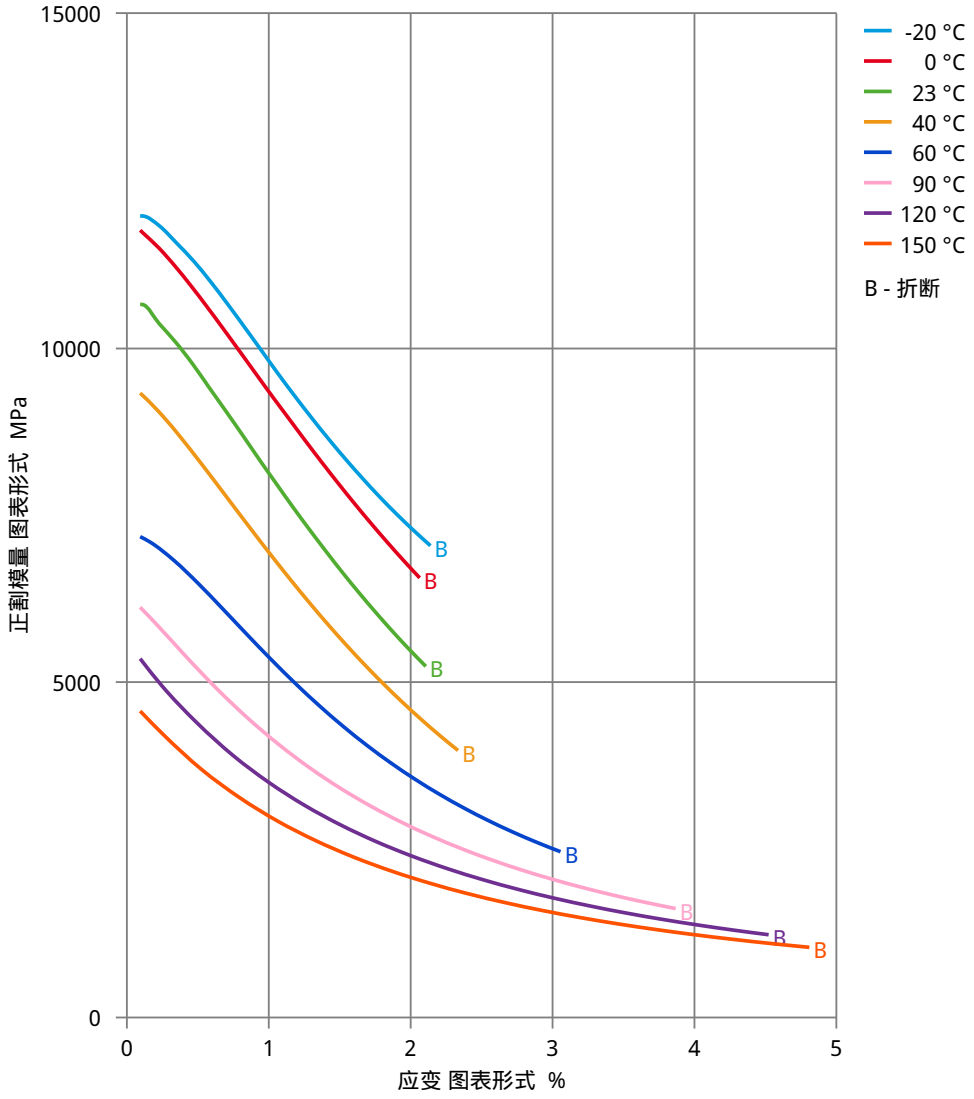
正割模量 - 应变 (dry)



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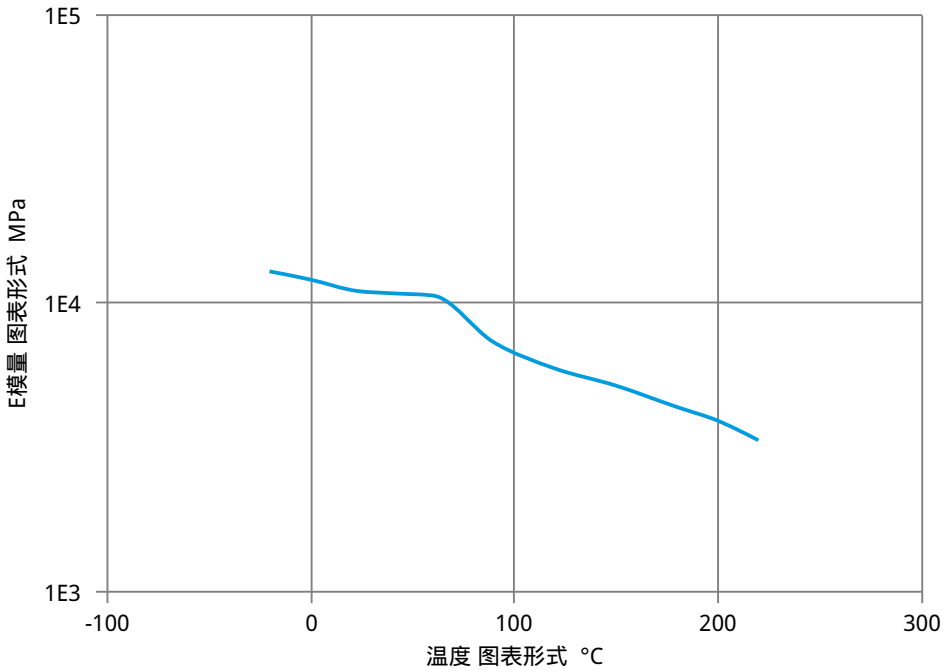
正割模量 - 应变 (cond.)



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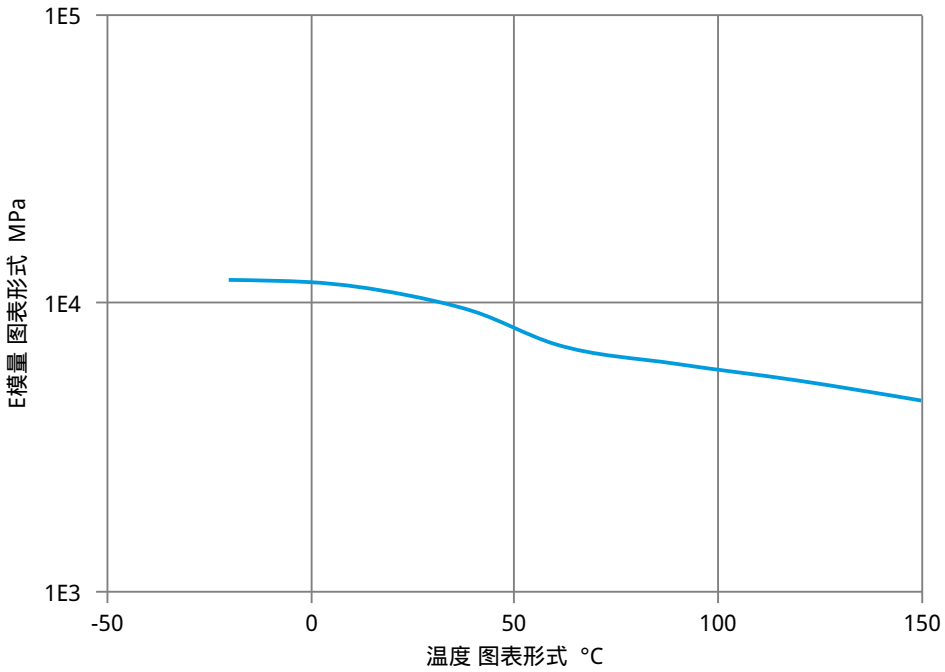
拉伸模量 - 温度 (dry)



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拉伸模量 - 温度 (cond.)



Revised: 2025-07-08 Source: Celanese Materials Database

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