

# Rynite® 550HTE BK503

## THERMOPLASTIC POLYESTER RESIN

Rynite® 550HTE BK503 is a 50% glass reinforced modified polyethylene terephthalate resin with excellent high temperature dielectric properties

### 总说明

树脂鉴别	PET-GF50	ISO 1043
制品标识码	>PET-GF50<	ISO 11469

### 流变性能

熔体体积流动速度, MVR	6.5 cm <sup>3</sup> /10min	ISO 1133
温度	280 °C	ISO 1133
负荷	10 kg	ISO 1133
模塑收缩率, 平行	0.2 %	ISO 294-4, 2577
模塑收缩率, 垂直	0.7 %	ISO 294-4, 2577

### 机械性能

拉伸模量	18000 MPa	ISO 527-1/-2
断裂应力	190 MPa	ISO 527-1/-2
断裂伸长率	1.8 %	ISO 527-1/-2
弯曲模量	16000 MPa	ISO 178
弯曲强度	280 MPa	ISO 178
简支梁无缺口冲击强度, +23°C	65 kJ/m <sup>2</sup>	ISO 179/1eU
简支梁缺口冲击强度, +23°C	11 kJ/m <sup>2</sup>	ISO 179/1eA
Poisson's ratio	0.33 -	

### 热性能

熔融温度, 10°C/min	251 °C	ISO 11357-1/-3
玻璃化转变温度, 10°C/min	95 °C	ISO 11357-1/-2
热变形温度, 1.80 MPa	235 °C	ISO 75-1/-2

### 电性能

介电强度	30 kV/mm	IEC 60243-1
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### 其它性能

密度	1750 kg/m <sup>3</sup>	ISO 1183
熔体密度	1560 kg/m <sup>3</sup>	



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## 注塑

建议干燥	是
干燥温度	120 °C
干燥时间, 除湿干燥机	4 - 6 h
加工前水分含量	≤ 0.01 <sup>[1]</sup> %
优良熔体温度	285 °C
注塑 熔体温度	280 °C
注塑 熔体温度	300 °C
模具温度	120 °C
模具温度	140 <sup>[2]</sup> °C

[1]: At levels above 0.01%, strength and toughness will decrease, even though parts may not exhibit surface defects.

[2]: (6mm - 1mm thickness)

## 成型

### 注塑

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

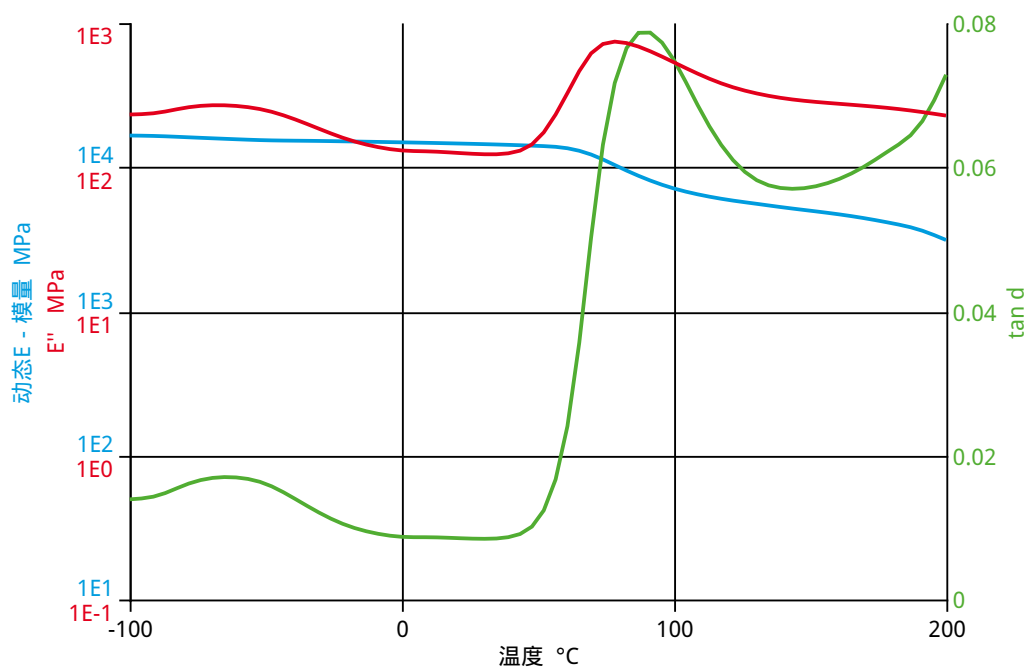
Higher temperature settings for the rear of the barrel will minimize glass fiber attrition, though overall barrel residence time should be considered.



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动态E - 模量 - 温度

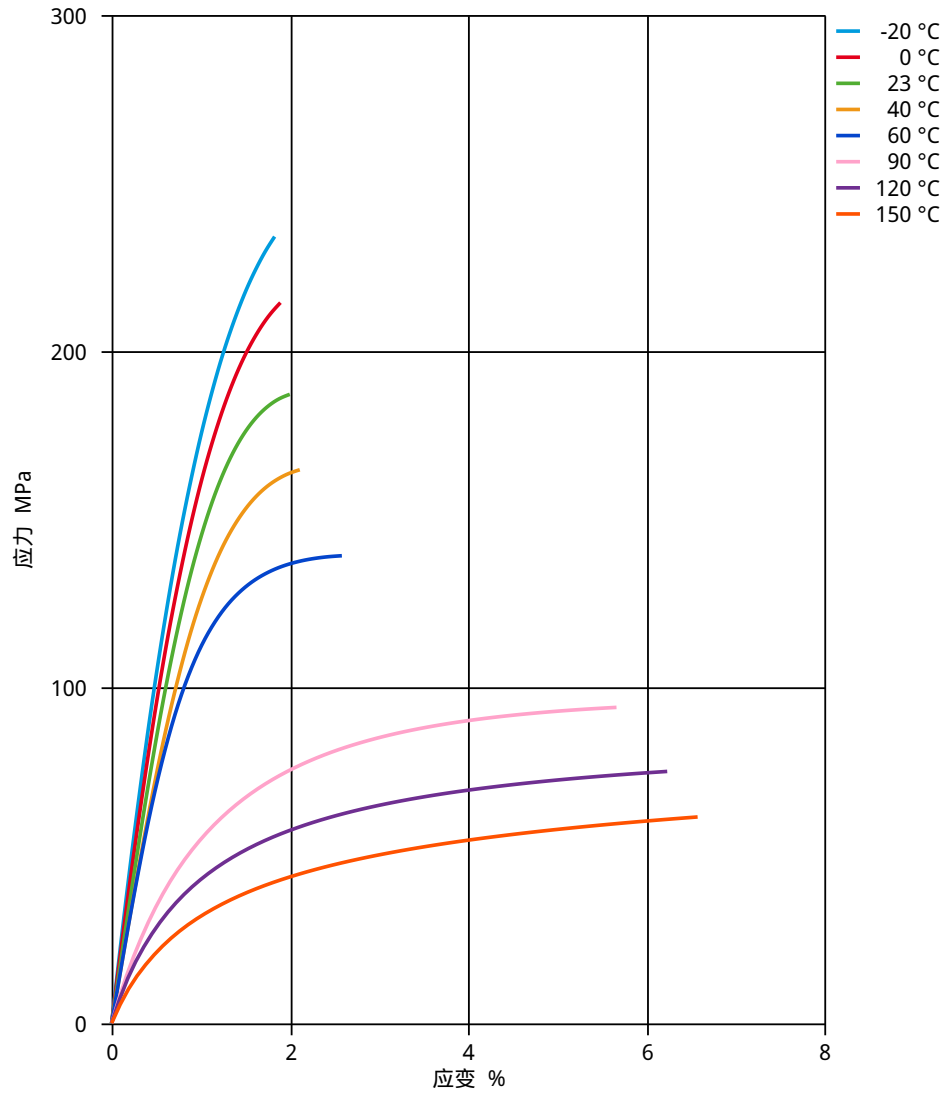




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应力 - 应变.

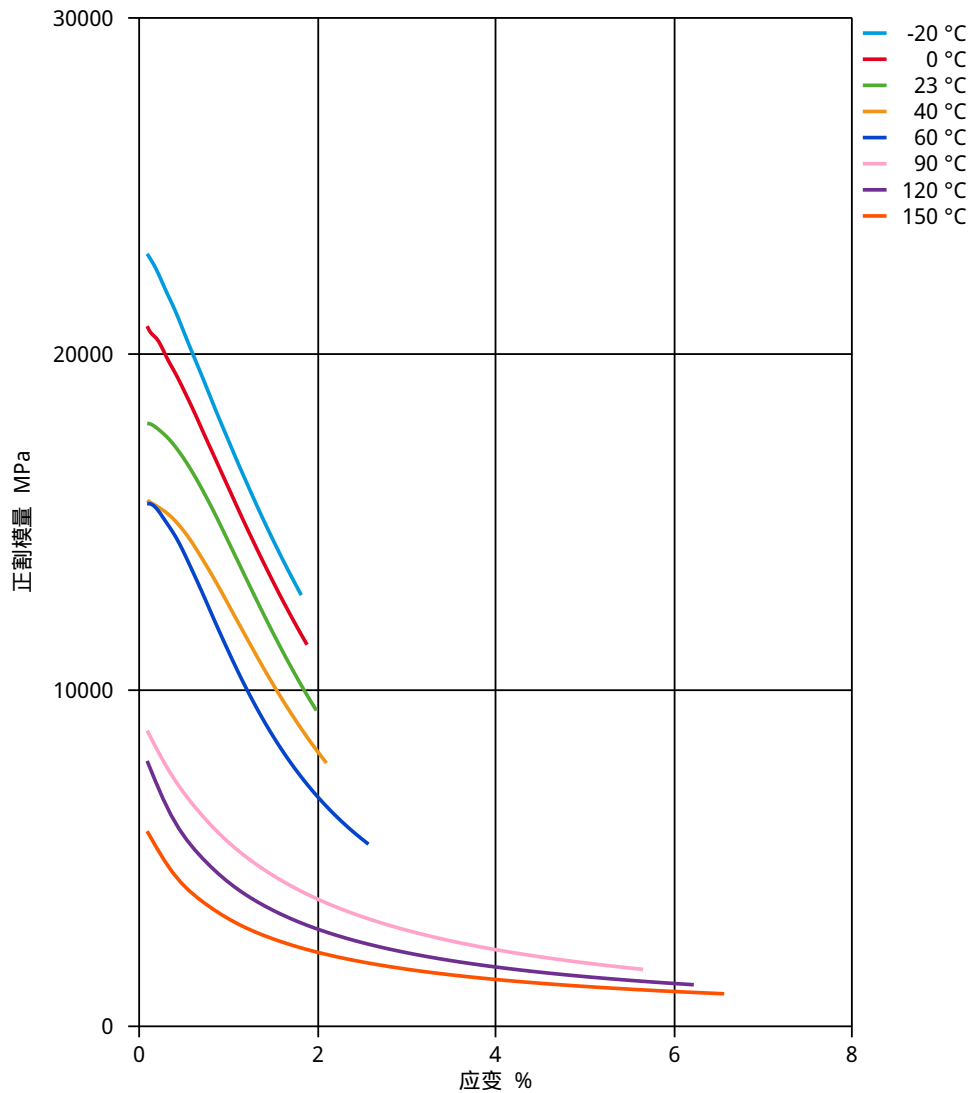




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正割模量 - 应变.

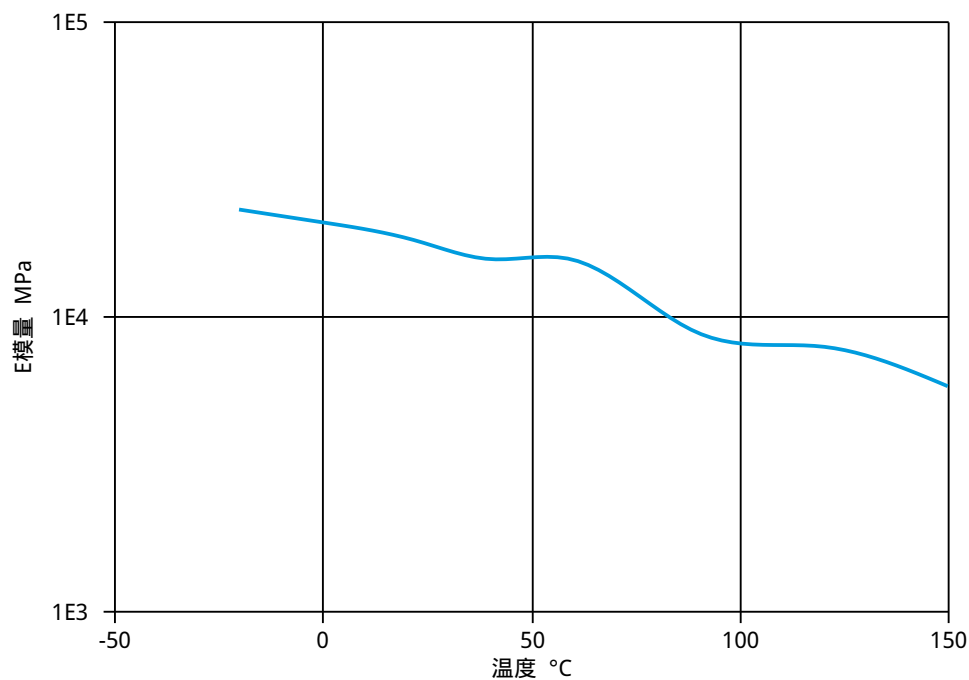




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拉伸模量 - 温度



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