



# Rynite® RE15022 NC010

## THERMOPLASTIC POLYESTER RESIN

Rynite® 热塑性聚酯的共性包括良好的机械和物理性能，例如强度和刚性之间良好的平衡、尺寸稳定性、耐蠕变、耐热老化、高表面光泽和固有地高温下良好的电气性能。可在很宽泛的温度范围内加工，有很好的流动性能。

Rynite® 热塑性聚酯通常应用于要求严苛的汽车、电子电器工业，成功取代金属、热固性材料和其他热塑性聚合物。

Rynite® RE15022 NC010是一种36% 玻纤增强 PET

### 总说明

树脂鉴别	PET-GF36	ISO 1043
制品标识码	>PET-GF36<	ISO 11469

### 流变性能

模塑收缩率, 平行	0.1 %	ISO 294-4, 2577
模塑收缩率, 垂直	1.0 %	ISO 294-4, 2577
模塑收缩率, 平行	0.13 %	
模塑收缩率, 垂直	0.99 %	

### 机械性能

拉伸模量	14000 MPa	ISO 527-1/-2
断裂应力	200 MPa	ISO 527-1/-2
断裂伸长率	2.4 %	ISO 527-1/-2
简支梁无缺口冲击强度, +23°C	70 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
简支梁缺口冲击强度, -30°C	11 kJ/m <sup>2</sup>	ISO 179/1eA
简支梁缺口冲击强度, -40°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	247 °C	ISO 11357-1/-3
热变形温度, 1.80 MPa	235 °C	ISO 75-1/-2
热变形温度, 0.45 MPa	245 °C	ISO 75-1/-2
线膨胀系数, 平行	20 E-6/K	ISO 11359-1/-2
线膨胀系数, 垂直	70 E-6/K	ISO 11359-1/-2

### 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)

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## 其它性能

密度	1650 kg/m <sup>3</sup>	ISO 1183
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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
螺杆大的切线速度	0.2 m/s
优良模具温度	140 °C
模具温度	120 °C
模具温度	140 <sup>[2]</sup> °C
保压范围	≥ 80 MPa
保压时间	4 s/mm
背压	As low as MPa possible
喷射温度	170 °C

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

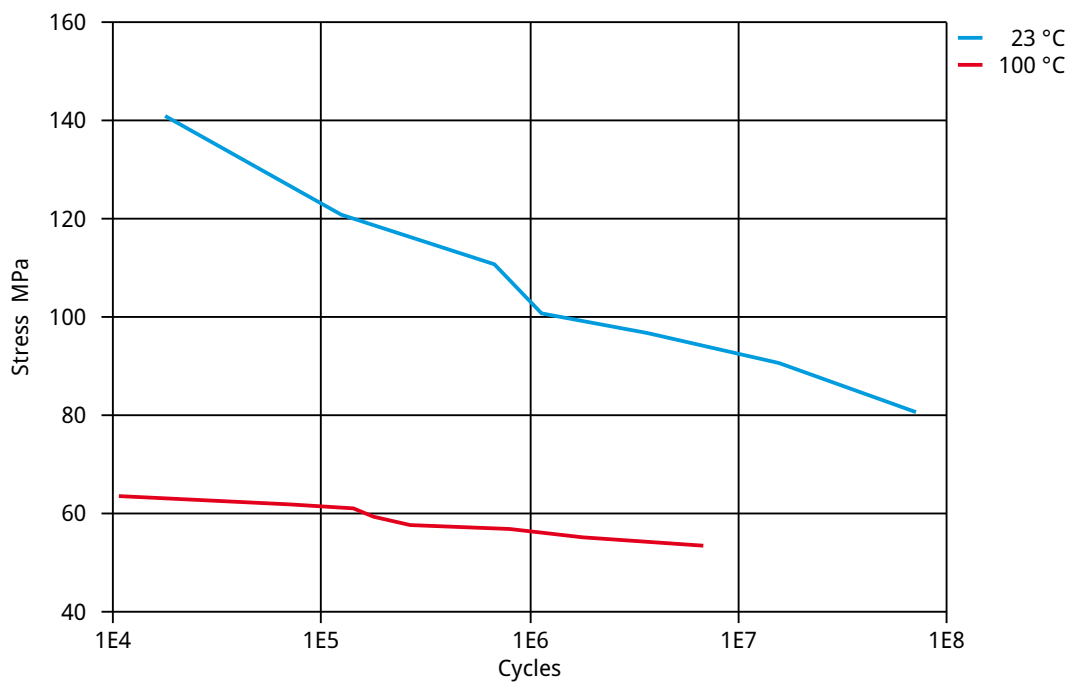
[2]: (6mm - 1mm thickness)



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疲劳(Wöhler), 拉伸, 10Hz, R=0. mm



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