



# Rynite® RE5264 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® RE5264 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

熔体质量流动速率	9 g/10min	ISO 1133
熔体质量流率，温度	280 °C	ISO 1133
熔体质量流率，载荷	2.16 kg	ISO 1133
模塑收缩率，平行	0.2 %	ISO 294-4, 2577
模塑收缩率，垂直	0.9 %	ISO 294-4, 2577
模塑收缩率，平行	0.15 %	
模塑收缩率，垂直	1.05 %	
模塑收缩率	0.2 %	ISO 294-4
模塑收缩率	0.05 %	ISO 294-4

### 机械性能

拉伸模量	14000 MPa	ISO 527-1/-2
断裂应力	190 MPa	ISO 527-1/-2
断裂伸长率	2 %	ISO 527-1/-2
弯曲模量	12000 MPa	ISO 178
弯曲强度	280 MPa	ISO 178
简支梁无缺口冲击强度，+23°C	55 kJ/m <sup>2</sup>	ISO 179/1eU
简支梁缺口冲击强度，+23°C	9.5 kJ/m <sup>2</sup>	ISO 179/1eA
简支梁缺口冲击强度，-30°C	9 kJ/m <sup>2</sup>	ISO 179/1eA
简支梁缺口冲击强度，-40°C	9 kJ/m <sup>2</sup>	ISO 179/1eA
洛氏硬度，Rockwell	120 -	ISO 2039-2
球压痕硬度	225 MPa	ISO 2039-1
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	230 °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



# Rynite® RE5264 NC010

## THERMOPLASTIC POLYESTER RESIN

### 燃烧性能

灼热丝燃烧指数, 1mm	750 °C	IEC 60695-2-12
灼热丝燃烧指数, 1.5mm	750 °C	IEC 60695-2-12
灼热丝燃烧指数, 2mm	750 °C	IEC 60695-2-12
灼热丝燃烧指数, 3mm	850 °C	IEC 60695-2-12
灼热丝起燃温度, 1mm	750 °C	IEC 60695-2-13
灼热丝起燃温度, 1.5mm	750 °C	IEC 60695-2-13
灼热丝起燃温度, 2mm	750 °C	IEC 60695-2-13
灼热丝起燃温度, 3mm	850 °C	IEC 60695-2-13
灼热丝温度, 无火, 1mm	750 °C	IEC 60335-1
灼热丝温度, 无火, 1.5mm	750 °C	IEC 60335-1
灼热丝温度, 无火, 2mm	750 °C	IEC 60335-1
灼热丝温度, 无火, 3mm	850 °C	IEC 60335-1
FMVSS Class	B -	ISO 3795 (FMVSS 302)
燃烧速率, 厚度: 1毫米	<80 mm/min	ISO 3795 (FMVSS 302)

### 电性能

介电强度	21.5 kV/mm	IEC 60243-1
------	------------	-------------

### 其它性能

密度	1660 kg/m <sup>3</sup>	ISO 1183
----	------------------------	----------

### 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 possible MPa
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)



# Rynite<sup>®</sup> RE5264 NC010

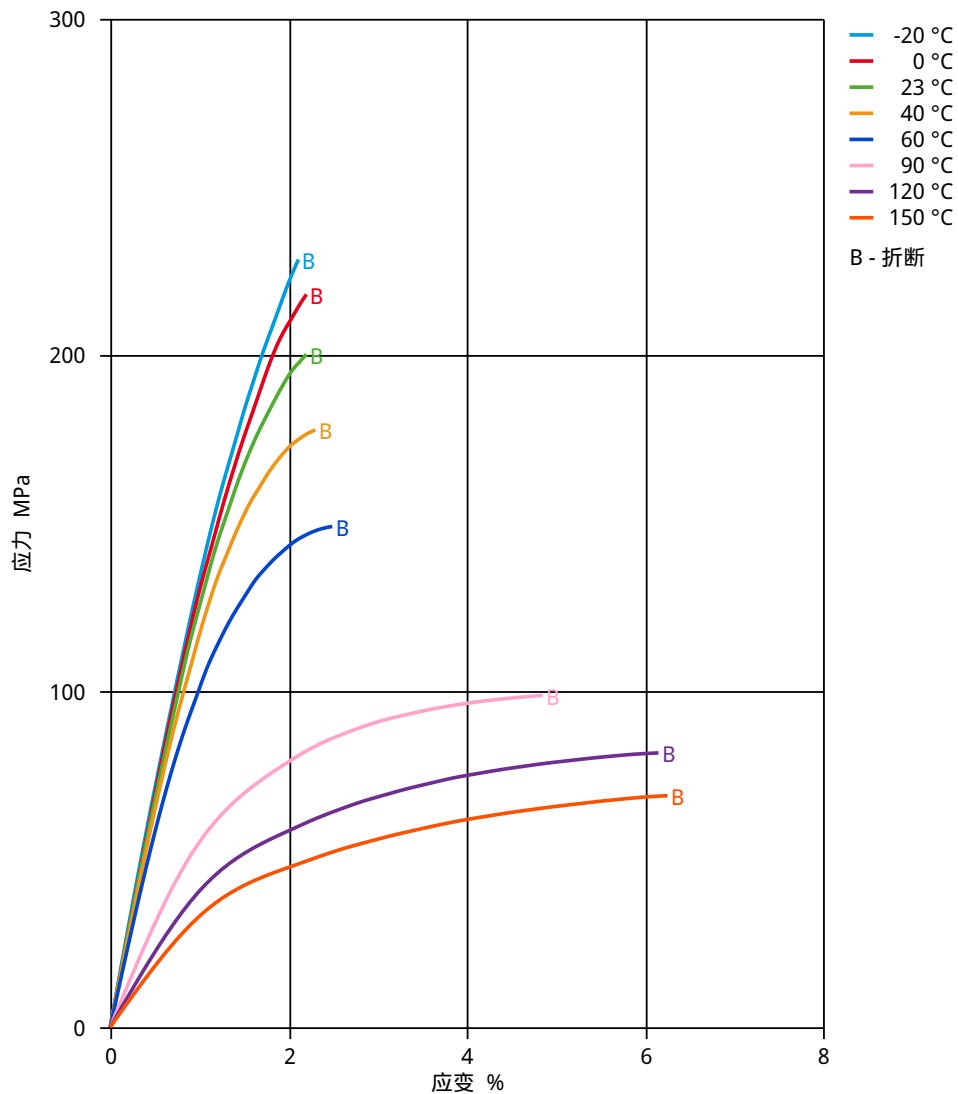
THERMOPLASTIC POLYESTER RESIN

## 典型数据

添加剂

脱模助剂

## 应力 - 应变.

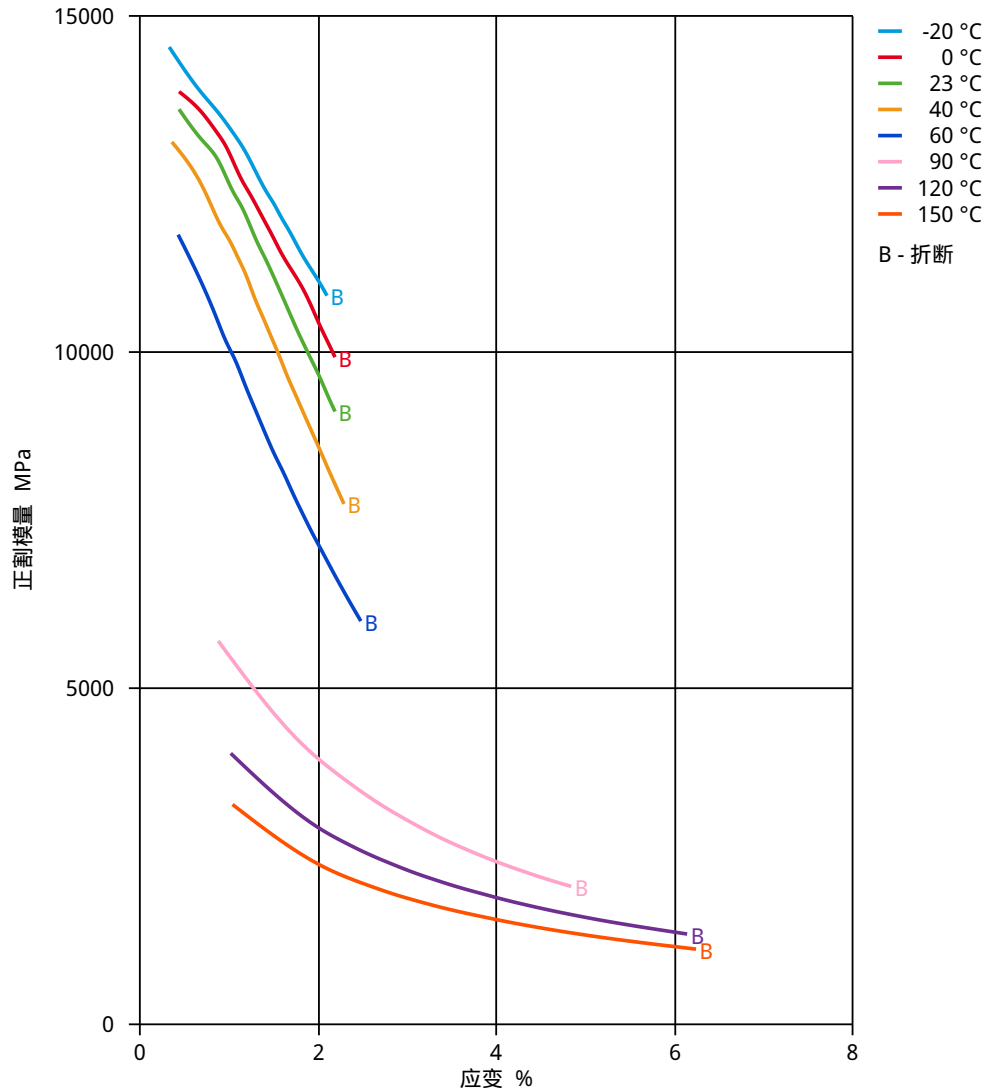




# Rynite<sup>®</sup> RE5264 NC010

THERMOPLASTIC POLYESTER RESIN

正割模量 - 应变.



Revised: 2019-10-17

Page: 4 of 4

[dupont.com](http://dupont.com)

The information set forth herein is furnished free of charge, is based on technical data that DuPont believes to be reliable, and represents typical values that fall within the normal range of properties. This information relates only to the specific material designated and may not be valid for such material used in combination with other materials or in other processes. It is intended for use by persons having technical skill, at their own discretion and risk. This information should not be used to establish specification limits nor used alone as the basis of design. Handling precaution information is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards and comply with applicable law. Since conditions of product use and disposal are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. As with any product, evaluation under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate or a recommendation to infringe on patents.

CAUTION: Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract or other acknowledgement that is consistent with the DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative.

DuPont's sole warranty is that our products will meet our standard sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DUPONT SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR NON-INFRINGEMENT. DUPONT DISCLAIMS LIABILITY FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.

DuPont<sup>™</sup>, the DuPont Oval Logo, and all trademarks and service marks denoted with <sup>™</sup>, <sup>SM</sup> or <sup>®</sup> are owned by affiliates of DuPont de Nemours, Inc. unless otherwise noted.

© 2021 DuPont. All rights reserved.