

## THERMOPLASTIC POLYESTER RESIN

Crastin® FGS621F50 NC010 is an unreinforced, low viscosity polybutylene terephthalate resin for injection molding. It has been developed for fast cycles and high productivity

into applications such as parts for the food industry.

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树脂鉴别	PBT	ISO 1043
制品标识码	>PBT<	ISO 11469

## 流变性能

熔体质量流动速率	50 g/10min	ISO 1133
熔体质量流率,温度	250 °C	ISO 1133
熔体质量流率,载荷	2.16 kg	ISO 1133
模塑收缩率, 平行	1.8 %	ISO 294-4, 2577
模塑收缩率, 垂直	1.8 %	ISO 294-4, 2577

## 机械性能

拉伸模量	2700	MPa	ISO 527-1/-2
屈服应力	60	MPa	ISO 527-1/-2
屈服伸长率	13	%	ISO 527-1/-2
简支梁无缺口冲击强度, +23°C	150	kJ/m²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	4	kJ/m²	ISO 179/1eA
Poisson's ratio	0.38	-	

## 热性能

熔融温度, 10°C/min	225	°C	ISO 11357-1/-3
玻璃化转变温度, 10°C/min	55	°C	ISO 11357-1/-2
热变形温度, 1.80 MPa	60	°C	ISO 75-1/-2
热变形温度, 0.45 MPa	160	°C	ISO 75-1/-2

## 其它性能

密度	1320 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	2 - 4 h
加工前水分含量	≤ 0.04 %
优良熔体温度	250 °C
注塑 熔体温度	240 °C

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## THERMOPLASTIC POLYESTER RESIN

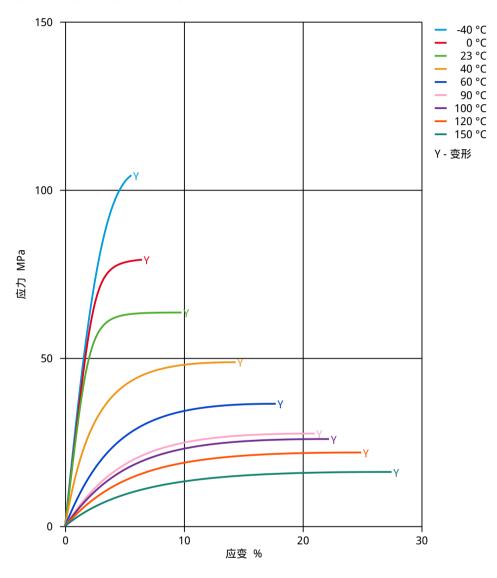
注塑 熔体温度	260 °C
优良模具温度	80 °C
模具温度	30 °C
模具温度	130 °C
保压范围	≥60 MPa
保压时间	4 s/mm
背压	As low as MPa
	possible
喷射温度	170 °C

应力 - 应变.

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## THERMOPLASTIC POLYESTER RESIN

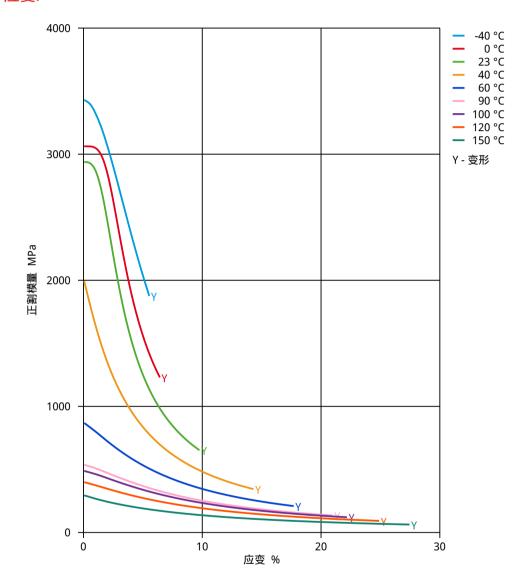


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## THERMOPLASTIC POLYESTER RESIN

正割模量 - 应变.

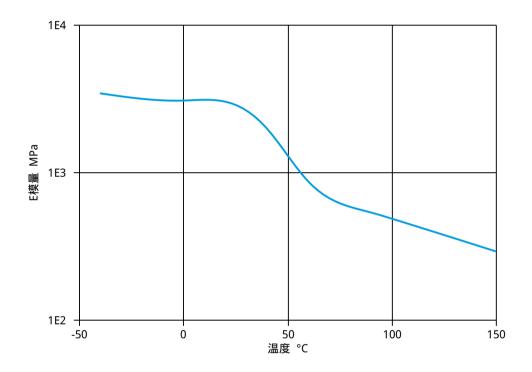


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## THERMOPLASTIC POLYESTER RESIN

拉伸模量 - 温度



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## THERMOPLASTIC POLYESTER RESIN

### 耐化学性

#### 酸类

- ✔ 醋酸 (5g/100g), 23°C
- ✔ 柠檬酸溶液 (10g/100g), 23°C
- ✔ 乳酸 (10g/100g), 23°C
- ★ 盐酸 (36g/100g), 23°C
- ★ 硝酸 (40g/100g), 23°C
- ➤ 硫酸 (38g/100g), 23°C
- **★** 硫酸 (5g/100g), 23°C

#### 碱类

- ¥ 氢氧化钠溶液 (35g/100g), 23°C
- ✔ 氢氧化钠溶液 (1g/100g), 23°C
- ✔ 氨水(氢氧化铵) (10g/100g), 23°C

#### 醇类

- ✔ 异丙醇, 23°C
- ✔ 甲醇, 23°C
- ✔ 乙醇, 23°C

#### 碳氢化合物

- ✔ n-乙烷, 23°C
- ✔ 甲苯, 23°C
- ✔ 异辛烷, 23°C

#### 酮类

✔ 丙酮, 23°C

#### 醚类

✔ (二)乙醚, 23°C

#### 矿物油

- ✔ SAE 10W40号多效润滑油, 23°C
- ★ SAE 10W40号多效润滑油, 130°C
- ¥ SAE 89/90号变速箱润滑油, 130°C
- ✔ 绝缘油, 23°C

### 标准燃油

- X ISO 1817 燃油1号, 60°C
- ¥ ISO 1817 燃油2号, 60°C
- ¥ ISO 1817 燃油3号, 60°C
- ¥ ISO 1817 燃油4号, 60°C
- ✓ 不含酒精的标准燃油(优先使用C类ISO 1817 燃油), 23°C
- ✓ 含酒精的标准燃油(优先使用4号ISO 1817 燃油), 23°C
- ✔ 柴油(优先使用F类ISO 1817液体), 23°C
- ✔ 柴油(优先使用F类ISO 1817液体), 90°C
- ¥ 柴油(优先使用F类ISO 1817液体), >90°C

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### THERMOPI ASTIC POLYESTER RESIN

#### 盐溶液

- ✔ 氯化钠溶液(10g/100g), 23°C
- ✔ 次氯化钠溶液 (10g/100g), 23°C
- ✔ 碳酸钠溶液 (20g/100g), 23°C
- ✔ 碳酸钠溶液 (2g/100g), 23°C
- ✔ 氯化锌溶液 (50g/100g), 23°C

### 其它

- ✔ 乙酸乙酯, 23°C
- X 过氧化氢, 23°C
- ➤ DOT4号刹车油, 130°C
- ★ 乙二醇水溶液 (50g/100g), 108°C
- ✓ 1g/100g 基苯氧-聚环氧乙烷乙烯水溶液, 23°C
- ✓ 油酸 (50g/100g) + 橄榄油 (50g/100g), 23°C
- ✔ 水, 23°C
- × 去离子水,90°C
- ✓ 酚溶液(5g/100g), 23°C

#### Symbols used:

possibly resistant

Defined as: Supplier has sufficient indication that contact with chemical can be potentially accepted under the intended use conditions and expected service life. Criteria for assessment have to be indicated (e.g. surface aspect, volume change, property change).

🗙 not recommended - see explanation

Defined as: Not recommended for general use. However, short-term exposure under certain restricted conditions could be acceptable (e.g. fast cleaning with thorough rinsing, spills, wiping, vapor exposure).

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