



# Delrin® 570 NC000

## ACETAL RESIN

Delrin®聚甲醛树脂的共性包括优异的机械性能和物理性能比如高机械强度和刚性，优异的耐疲劳性能和抗冲击性，同时具有突出的耐潮湿、汽油、润滑剂、溶剂和多种其他中性化学品。Delrin®聚甲醛树脂还具有优良尺寸稳定性和良好的电绝缘性能，具有天然弹性、自润滑，可制成多种颜色和特殊规格。

Delrin®聚甲醛树脂通常应用于具有严苛要求的汽车、家用电器、运动、工业工程、电子和消费品工业。

Delrin® 570 NC000是一种20% 玻纤填充 中等粘度均聚甲醛

### 总说明

树脂鉴别	POM-GF20	ISO 1043
制品标识码	>POM-GF20<	ISO 11469

### 流变性能

熔体体积流动速度, MVR	7 cm <sup>3</sup> /10min	ISO 1133
温度	190 °C	ISO 1133
负荷	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	1.2 %	ISO 294-4, 2577

### 机械性能

拉伸模量	4900 MPa	ISO 527-1/-2
断裂应力	53 MPa	ISO 527-1/-2
断裂伸长率	12 %	ISO 527-1/-2
弯曲模量	4600 MPa	ISO 178
简支梁无缺口冲击强度, +23°C	54 kJ/m <sup>2</sup>	ISO 179/1eU
简支梁无缺口冲击强度, -30°C	50 kJ/m <sup>2</sup>	ISO 179/1eU
简支梁缺口冲击强度, +23°C	3.5 kJ/m <sup>2</sup>	ISO 179/1eA
简支梁缺口冲击强度, -30°C	3 kJ/m <sup>2</sup>	ISO 179/1eA
悬臂梁缺口冲击强度, 23°C	6 kJ/m <sup>2</sup>	ISO 180/1A
球压痕硬度	160 MPa	ISO 2039-1
Poisson's ratio	0.35 -	

### 热性能

熔融温度, 10°C/min	178 °C	ISO 11357-1/-3
热变形温度, 1.80 MPa	125 °C	ISO 75-1/-2
热变形温度, 0.45 MPa	165 °C	ISO 75-1/-2
维卡软化温度, 50°C/h 50N	160 °C	ISO 306
线膨胀系数, 平行	60 E-6/K	ISO 11359-1/-2
线膨胀系数, 垂直	85 E-6/K	ISO 11359-1/-2
相对温度指数, 电气性能, 1.5mm	105 °C	UL 746B
相对温度指数, 电气性能, 3mm	105 °C	UL 746B
相对温度指数, 电气性能, 6mm	105 °C	UL 746B

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相对温度指数, 冲击, 1.5mm	85 °C	UL 746B
相对温度指数, 冲击, 3mm	85 °C	UL 746B
相对温度指数, 冲击, 6mm	85 °C	UL 746B
相对温度指数, 强度, 1.5mm	90 °C	UL 746B
相对温度指数, 强度, 3mm	90 °C	UL 746B
相对温度指数, 强度, 6mm	90 °C	UL 746B

### 燃烧性能

1.5mm名义厚度时的燃烧性	HB class	IEC 60695-11-10
测试用试样的厚度	1.5 mm	IEC 60695-11-10
UL注册	yes -	UL 94
厚度为h时的燃烧性	HB class	IEC 60695-11-10
测试用试样的厚度	3 mm	IEC 60695-11-10
UL注册	yes -	UL 94
灼热丝燃烧指数, 3mm	600 °C	IEC 60695-2-12
FMVSS Class	B -	ISO 3795 (FMVSS 302)
燃烧速率, 厚度: 1毫米	53 mm/min	ISO 3795 (FMVSS 302)

### 电性能

相对介电常数., 100Hz	3.9 -	IEC 62631-2-1
相对介电常数., 1MHz	3.9 -	IEC 62631-2-1
介质损耗因子, 1MHz	50 E-4	IEC 62631-2-1
体积电阻率	1E13 Ohm.m	IEC 62631-3-1
表面电阻率	>1E15 Ohm	IEC 62631-3-2
相对漏电起痕指数	600 -	IEC 60112

### 其它性能

吸湿性, 2mm	0.1 %	类似ISO 62
吸水性, 2mm	0.8 %	类似ISO 62
密度	1560 kg/m <sup>3</sup>	ISO 1183

### VDA性能

雾化	0.5 mg	ISO 6452
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### 注塑

建议干燥	是
干燥温度	80 °C
干燥时间, 除湿干燥机	2 - 4 h
加工前水分含量	≤ 0.2 %
优良熔体温度	215 °C
注塑 熔体温度	210 °C
注塑 熔体温度	220 °C
螺杆切线速度	0.3 m/s



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优良模具温度	90 °C
模具温度	80 °C
模具温度	100 °C
保压范围	80 - 100 MPa
保压时间	8 s/mm
回火时间, 可选	30 min/mm
回火温度	160 °C

### 典型数据

添加剂

脱模助剂

### 成型

注塑

Drying is recommended, but not necessary for newly opened packaging stored in a dry location.

Follow the drying guidelines above in the following cases:

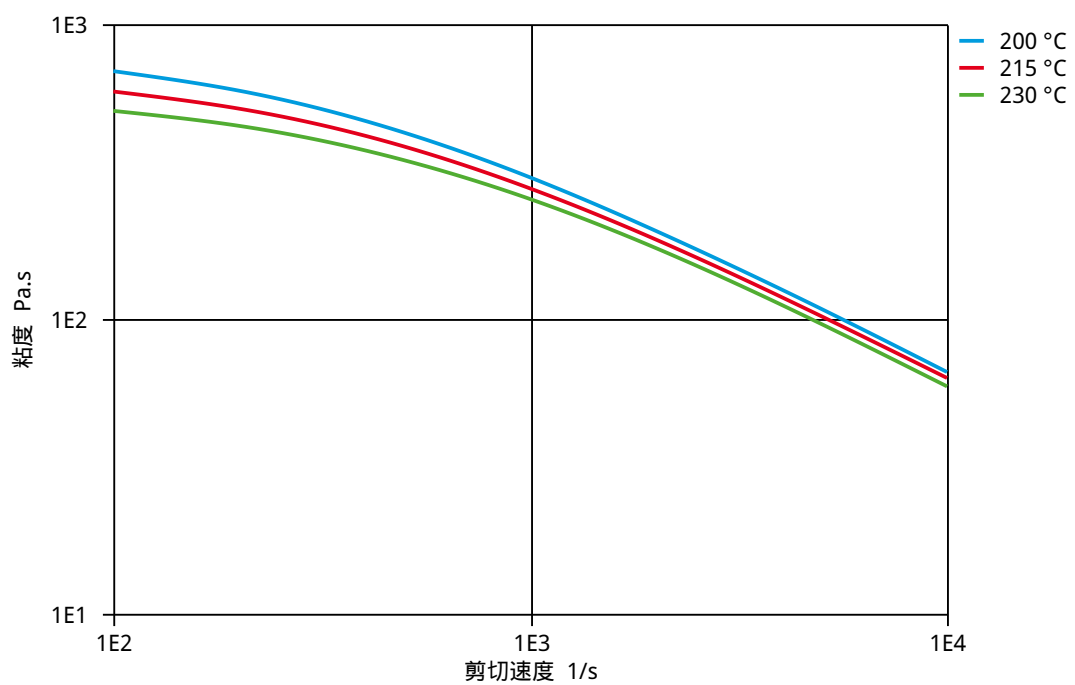
- If moisture is above the Processing Moisture Content recommendation,
- When a resin container is damaged,
- When the material is not properly stored in a dry place at room temperature, or
- When packaging stays open for a significant time.



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粘度 - 剪切速度

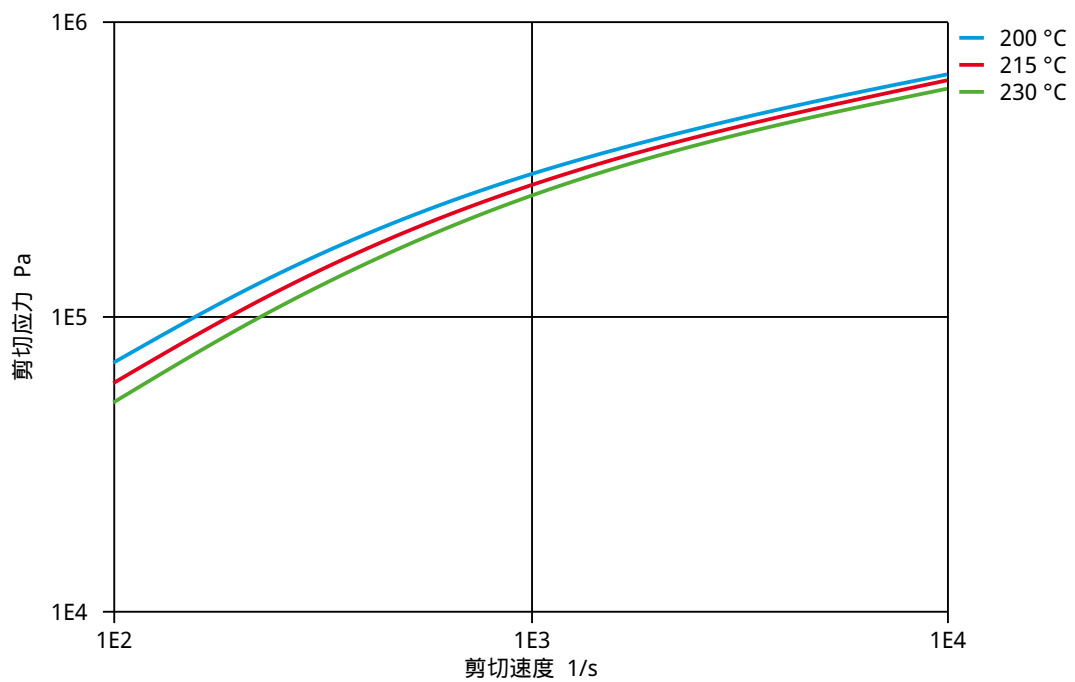




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ACETAL RESIN

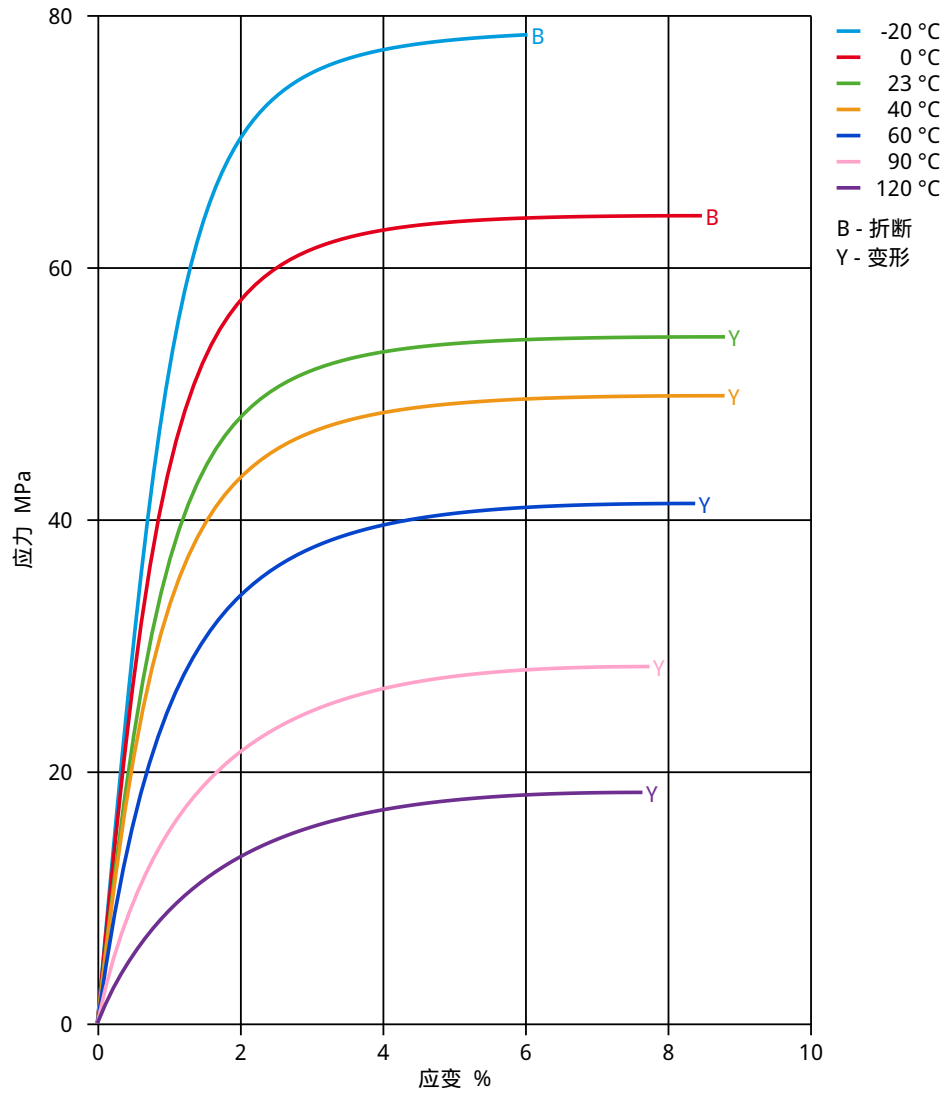
剪切应力 - 剪切速度



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ACETAL RESIN

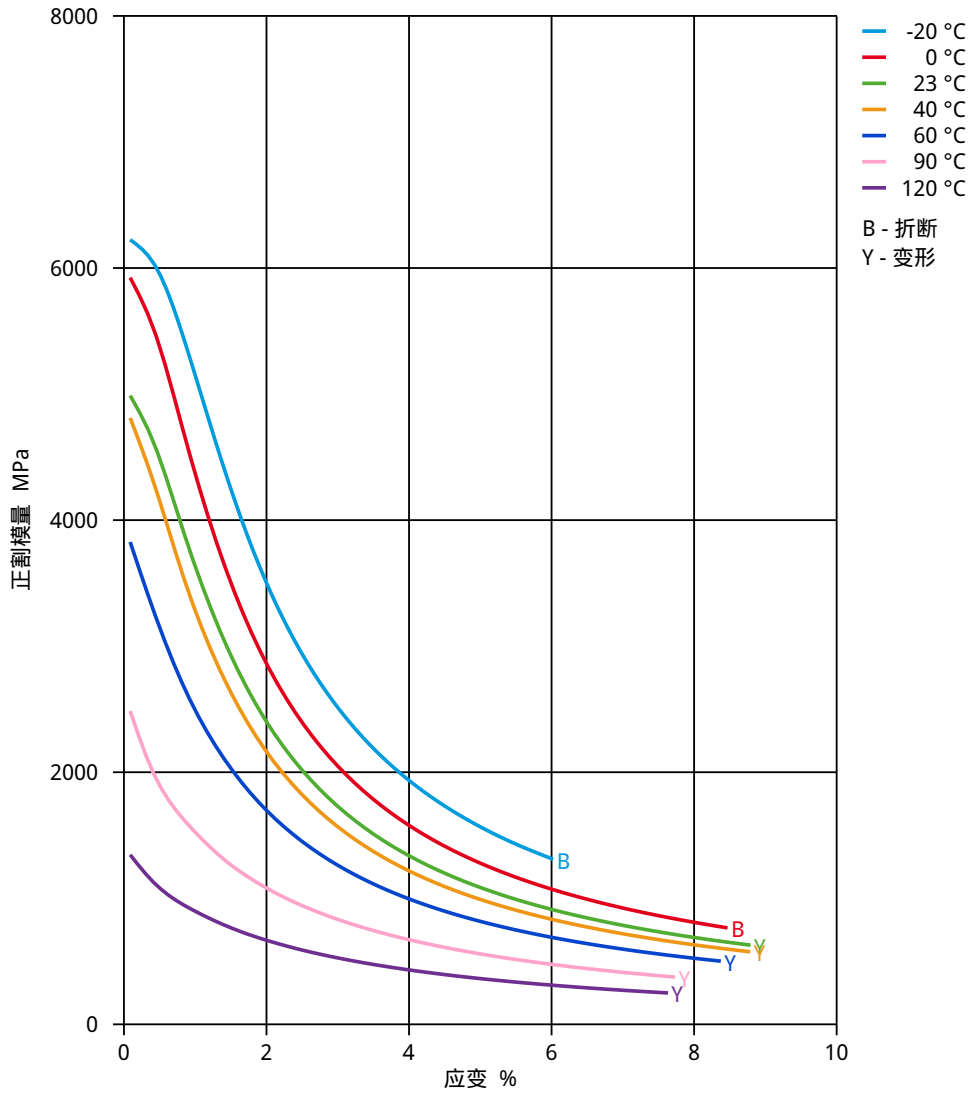
应力 - 应变.



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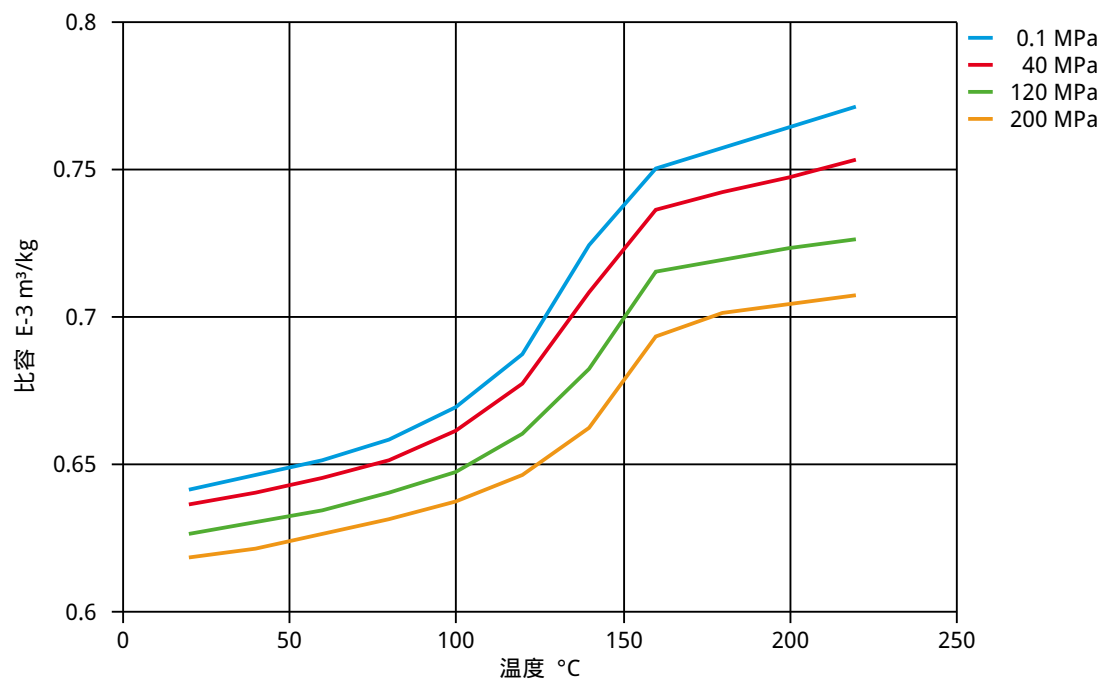
正割模量 - 应变.



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比容 - 温度(pvT)



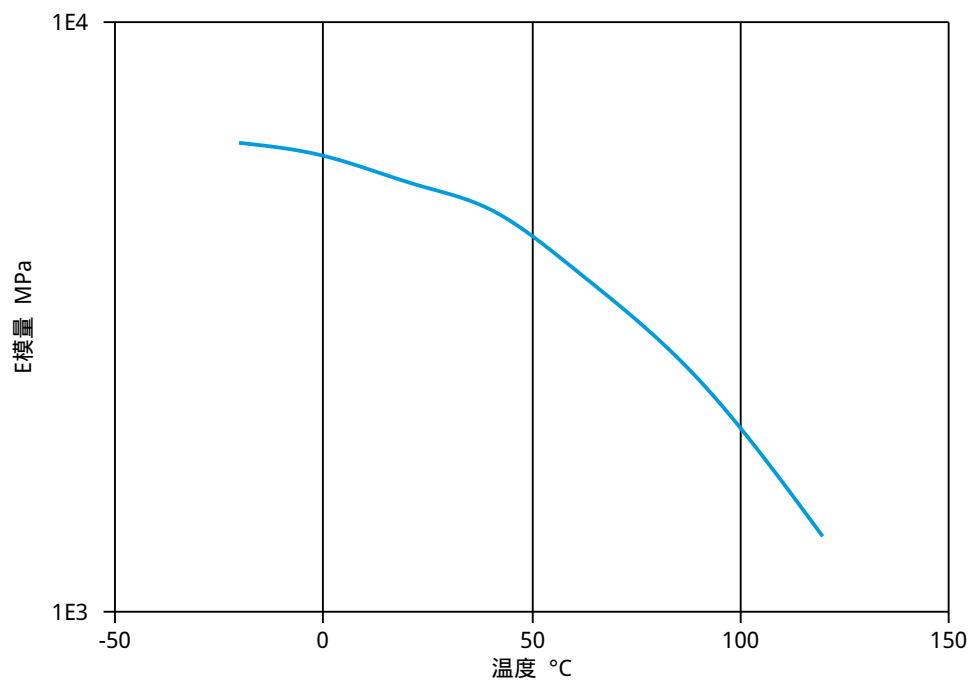




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拉伸模量 - 温度



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