



Delrin® 525GR 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® 525GR NC000是一种25% 玻纤增强 中等粘度均聚甲醛

总说明

树脂鉴别	POM-GF25	ISO 1043
制品标识码	>POM-GF25<	ISO 11469

流变性能

熔体质量流动速率	8 g/10min	ISO 1133
熔体质量流率，温度	190 °C	ISO 1133
熔体质量流率，载荷	2.16 kg	ISO 1133
模塑收缩率，平行	0.4 %	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	9500 MPa	ISO 527-1/-2
断裂应力	160 MPa	ISO 527-1/-2
断裂伸长率	3 %	ISO 527-1/-2
弯曲模量	9150 MPa	ISO 178
弯曲强度	245 ^[1] MPa	ISO 178
压缩强度	210 MPa	ISO 604
拉伸蠕变模量, 1h	8500 MPa	ISO 899-1
拉伸蠕变模量, 1000h	6000 MPa	ISO 899-1
简支梁无缺口冲击强度, +23°C	60 kJ/m ²	ISO 179/1eU
简支梁无缺口冲击强度, -30°C	50 kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	10 kJ/m ²	ISO 179/1eA
简支梁缺口冲击强度, -30°C	10 kJ/m ²	ISO 179/1eA
洛氏硬度	101 -	ISO 2039-2
洛氏硬度, Rockwell	122 -	ISO 2039-2
Poisson's ratio	0.34 -	

[1]: Strain at break = 3.2%



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热性能

熔融温度, 10°C/min	178 °C	ISO 11357-1/-3
热变形温度, 1.80 MPa	172 °C	ISO 75-1/-2
热变形温度, 0.45 MPa	176 °C	ISO 75-1/-2
线膨胀系数, 平行	35 E-6/K	ISO 11359-1/-2
线膨胀系数, 垂直	100 E-6/K	ISO 11359-1/-2
相对温度指数, 电气性能, 0.75mm	50 °C	UL 746B
相对温度指数, 电气性能, 1.5mm	50 °C	UL 746B
相对温度指数, 电气性能, 3mm	50 °C	UL 746B
相对温度指数, 冲击, 0.75mm	50 °C	UL 746B
相对温度指数, 冲击, 1.5mm	50 °C	UL 746B
相对温度指数, 冲击, 3mm	50 °C	UL 746B
相对温度指数, 强度, 0.75mm	50 °C	UL 746B
相对温度指数, 强度, 1.5mm	50 °C	UL 746B
相对温度指数, 强度, 3mm	50 °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	0.75 mm	IEC 60695-11-10
UL注册	yes -	UL 94
FMVSS Class	B -	ISO 3795 (FMVSS 302)
燃烧速率, 厚度 : 1毫米	49 mm/min	ISO 3795 (FMVSS 302)

电性能

相对介电常数., 100Hz	3.7 -	IEC 62631-2-1
相对介电常数., 1MHz	3.8 -	IEC 62631-2-1
体积电阻率	1E12 Ohm.m	IEC 62631-3-1
相对漏电起痕指数	600 -	IEC 60112

其它性能

吸湿性, 2mm	0.17 %	类似ISO 62
吸水性, 2mm	1.26 %	类似ISO 62
密度	1590 kg/m ³	ISO 1183

VDA性能

雾化	90 ^[DS, AMin] %	ISO 6452
雾化	1.2 mg	ISO 6452

[DS]: Derived from similar grade

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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
螺杆大的切线速度	0.3 m/s
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:

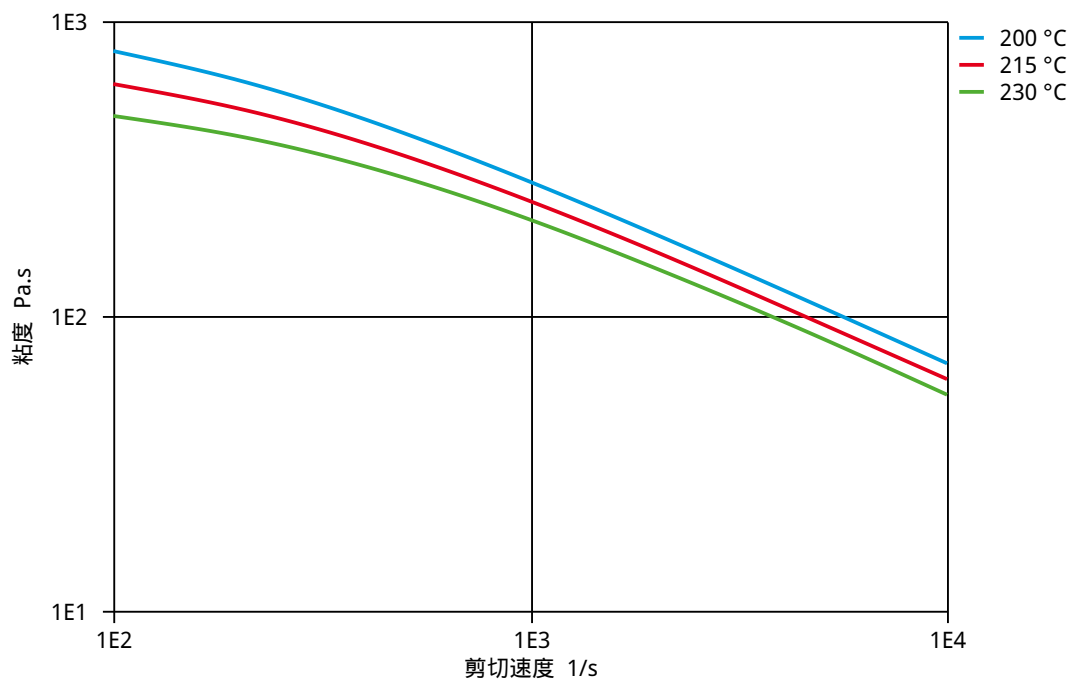
- If moisture is above the Processing Moisture Content recommendation,
- When a resin container is damaged,
- When the material is not properly stored in a dry place at room temperature, or
- When packaging stays open for a significant time.



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粘度 - 剪切速度

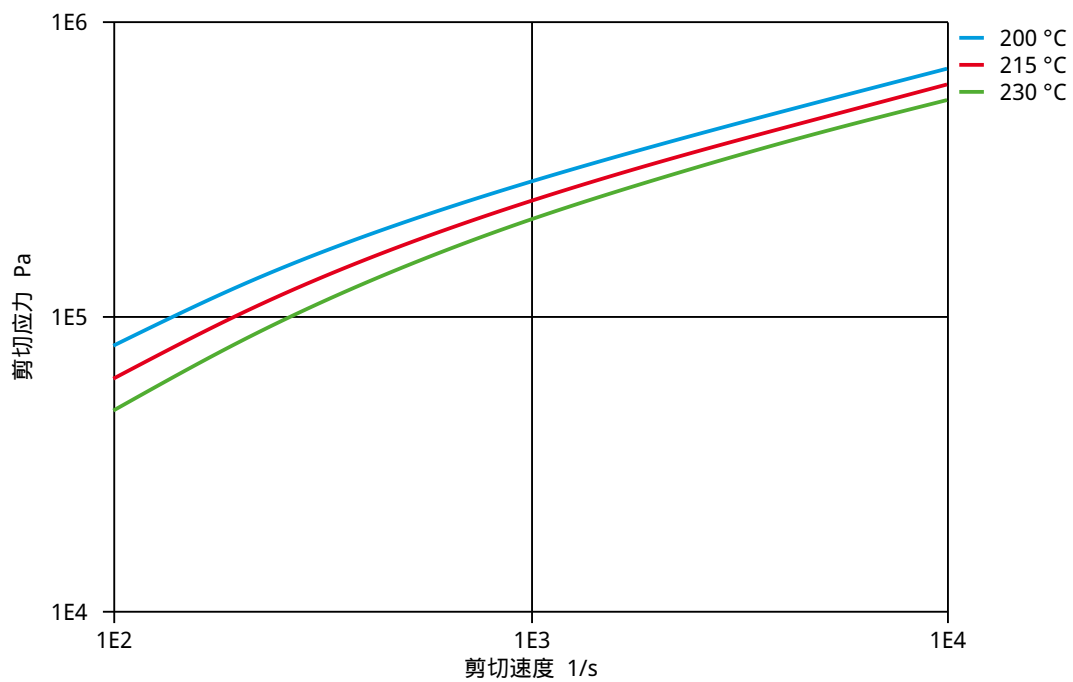




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剪切应力 - 剪切速度

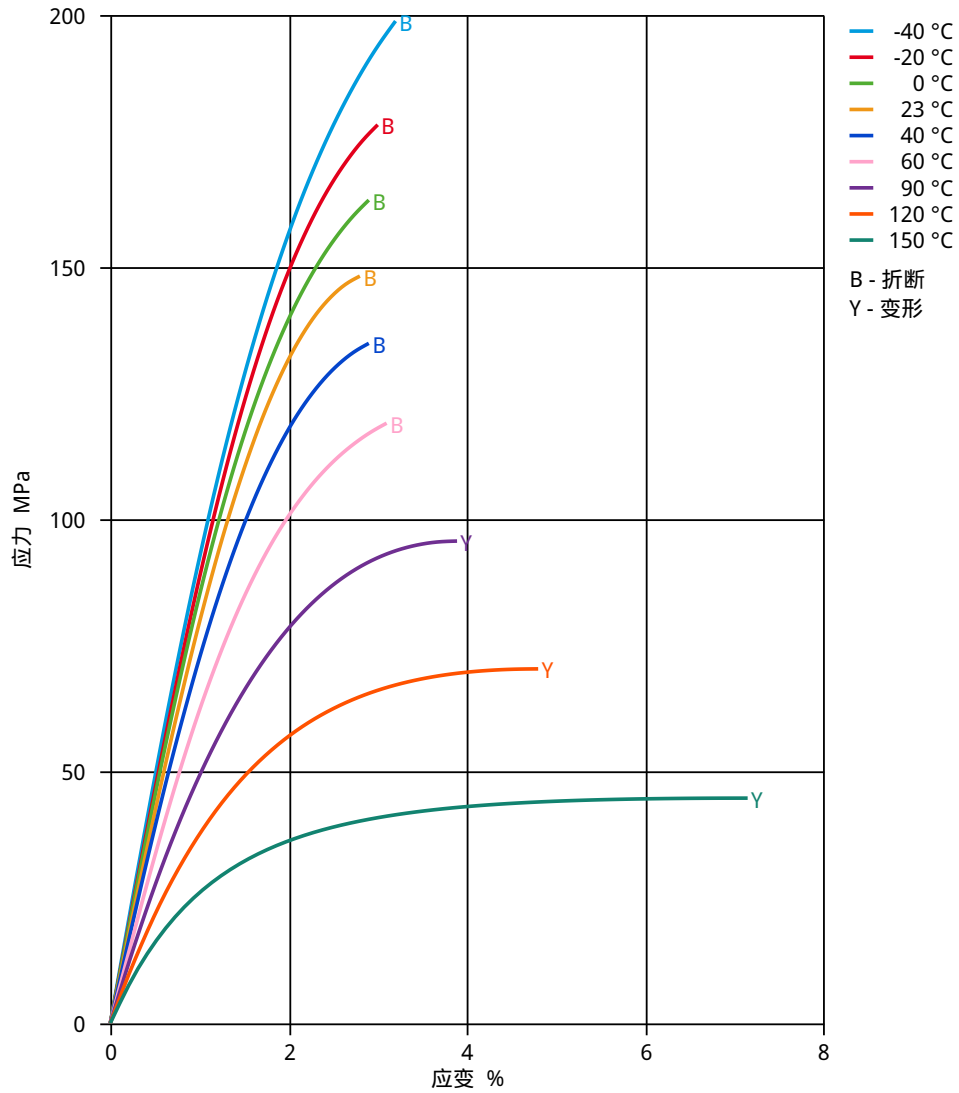




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ACETAL RESIN

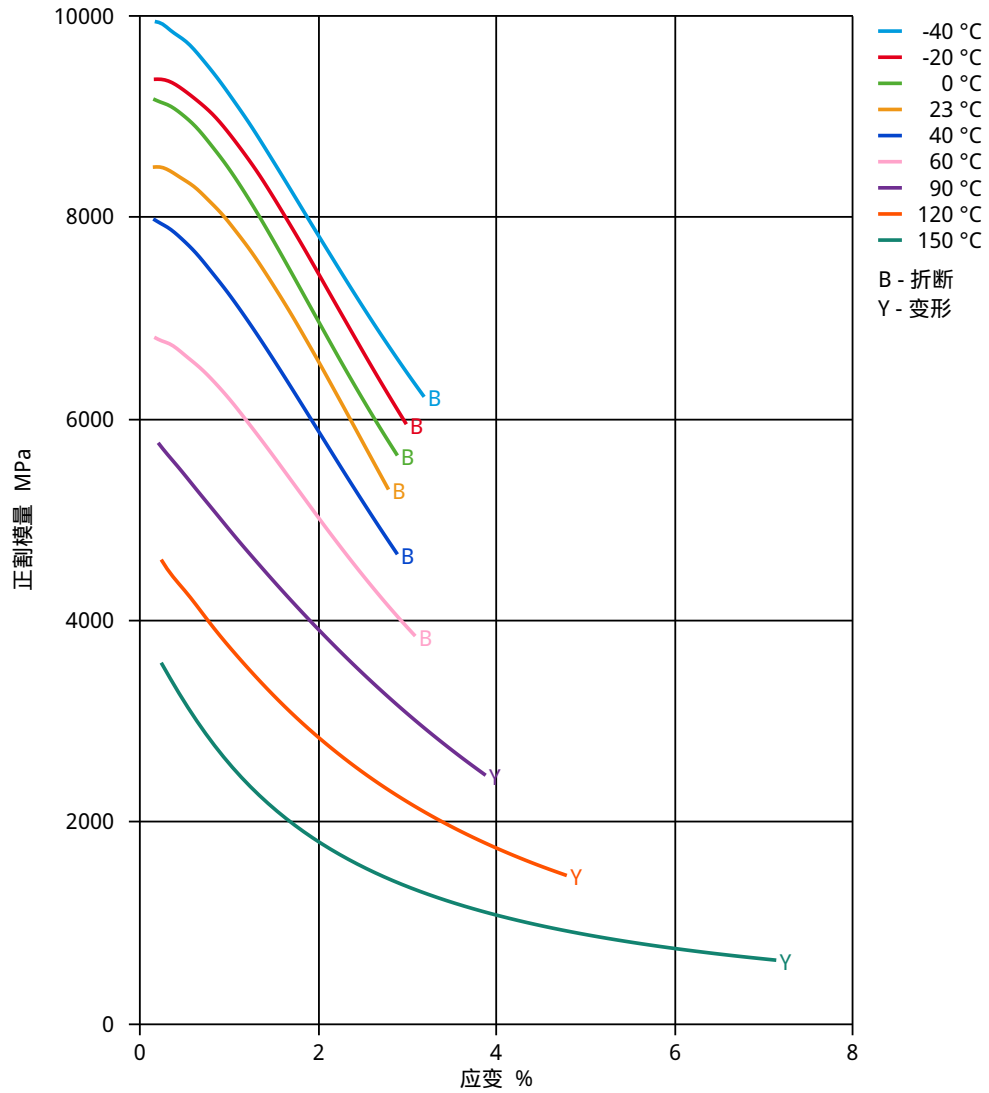
应力 - 应变.



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ACETAL RESIN

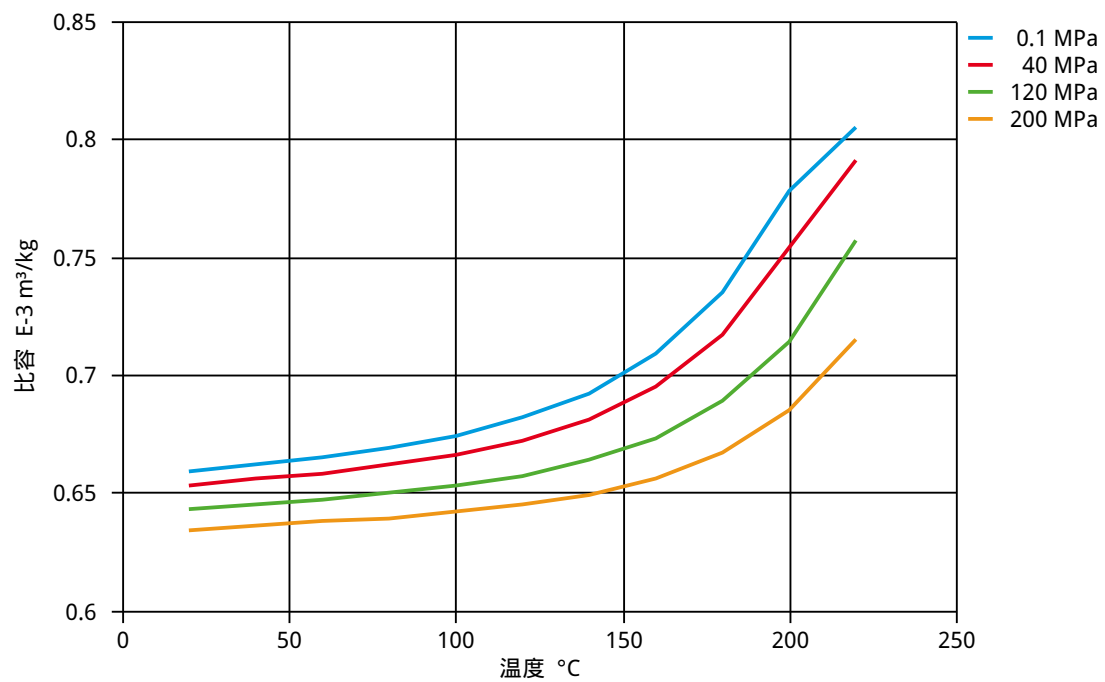
正割模量 - 应变.



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比容 - 温度(pvT)

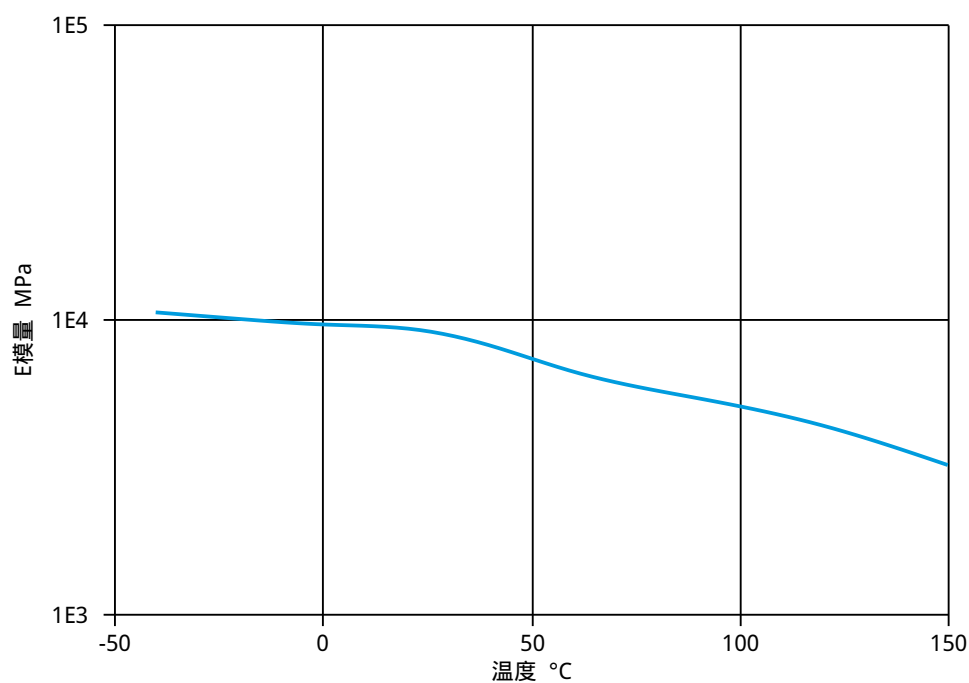




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拉伸模量 - 温度



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