



Delrin® 300CP NC010

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® 300CP NC010是一种中高粘度均聚甲醛具有更佳加工性能

总说明

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

流变性能

熔体体积流动速度, MVR	6 cm ³ /10min	ISO 1133
熔体质量流动速率	7 g/10min	ISO 1133
温度	190 °C	ISO 1133
负荷	2.16 kg	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	2.1 %	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	3100 MPa	ISO 527-1/-2
屈服应力	71 MPa	ISO 527-1/-2
屈服伸长率	23 %	ISO 527-1/-2
名义断裂伸长率	40 %	ISO 527-1/-2
弯曲模量	3000 MPa	ISO 178
剪切模量	1120 MPa	ISO 6721
简支梁无缺口冲击强度, +23°C	N kJ/m ²	ISO 179/1eU
简支梁无缺口冲击强度, -30°C	340 kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	10.5 kJ/m ²	ISO 179/1eA
简支梁缺口冲击强度, -30°C	10 kJ/m ²	ISO 179/1eA
Poisson's ratio	0.37 -	

热性能

熔融温度, 10°C/min	178 °C	ISO 11357-1/-3
热变形温度, 1.80 MPa	97 °C	ISO 75-1/-2
热变形温度, 0.45 MPa	165 °C	ISO 75-1/-2
线膨胀系数, 平行	110 E-6/K	ISO 11359-1/-2
线膨胀系数, 垂直	110 E-6/K	ISO 11359-1/-2



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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)

电性能

相对介电常数., 100Hz	3.8 -	IEC 62631-2-1
相对介电常数., 1MHz	3.5 -	IEC 62631-2-1
介质损耗因子, 1MHz	56 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	0.2 %	类似ISO 62
吸水性, 2mm	0.9 %	类似ISO 62
密度	1420 kg/m ³	ISO 1183
熔体密度	1160 kg/m ³	

VDA性能

甲醛散发	<8 ^[1] mg/kg	VDA 275
[1]: <5		

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 %
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	0.2 m/s
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
喷射温度	135 °C
回火时间, 可选	30 min/mm
回火温度	160 °C



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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:

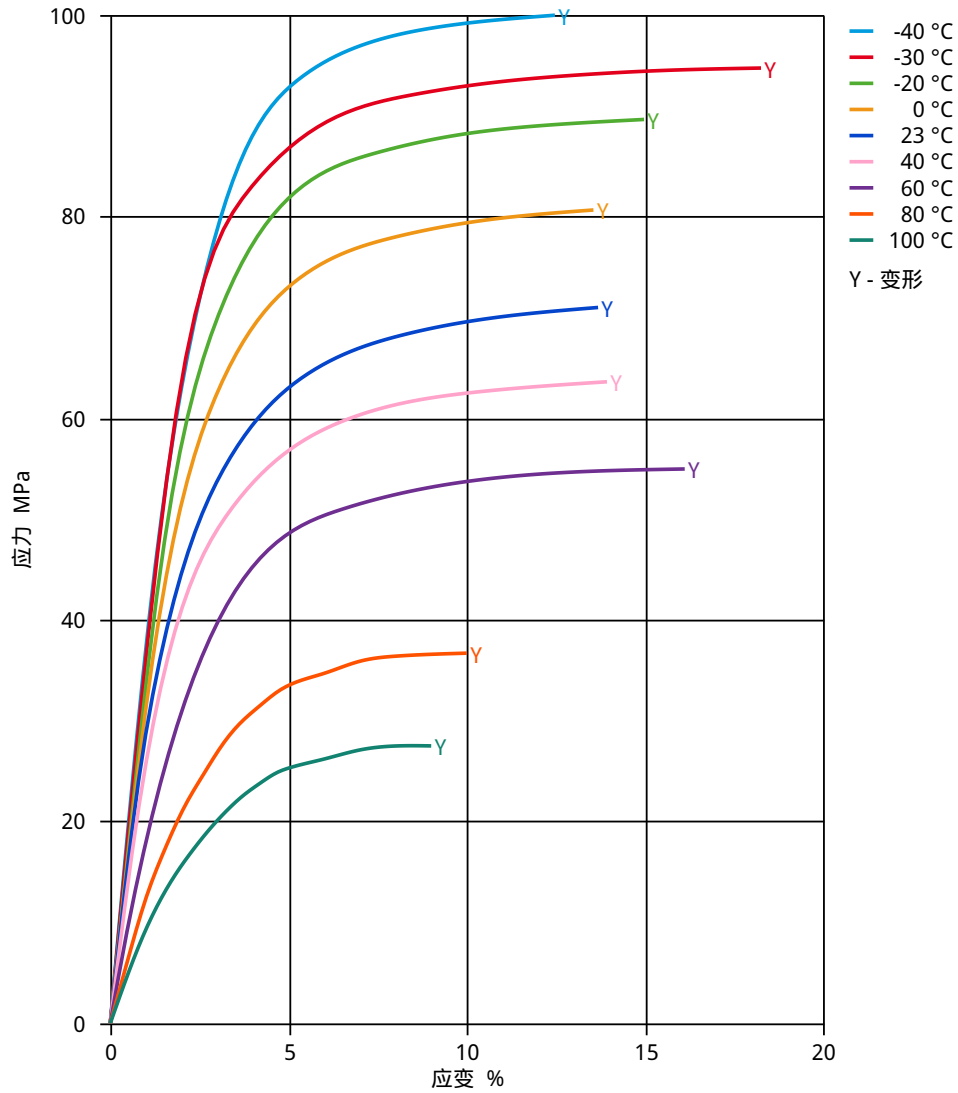
- If moisture is above the Processing Moisture Content recommendation,
- When a resin container is damaged,
- When the material is not properly stored in a dry place at room temperature, or
- When packaging stays open for a significant time.



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应力 - 应变.

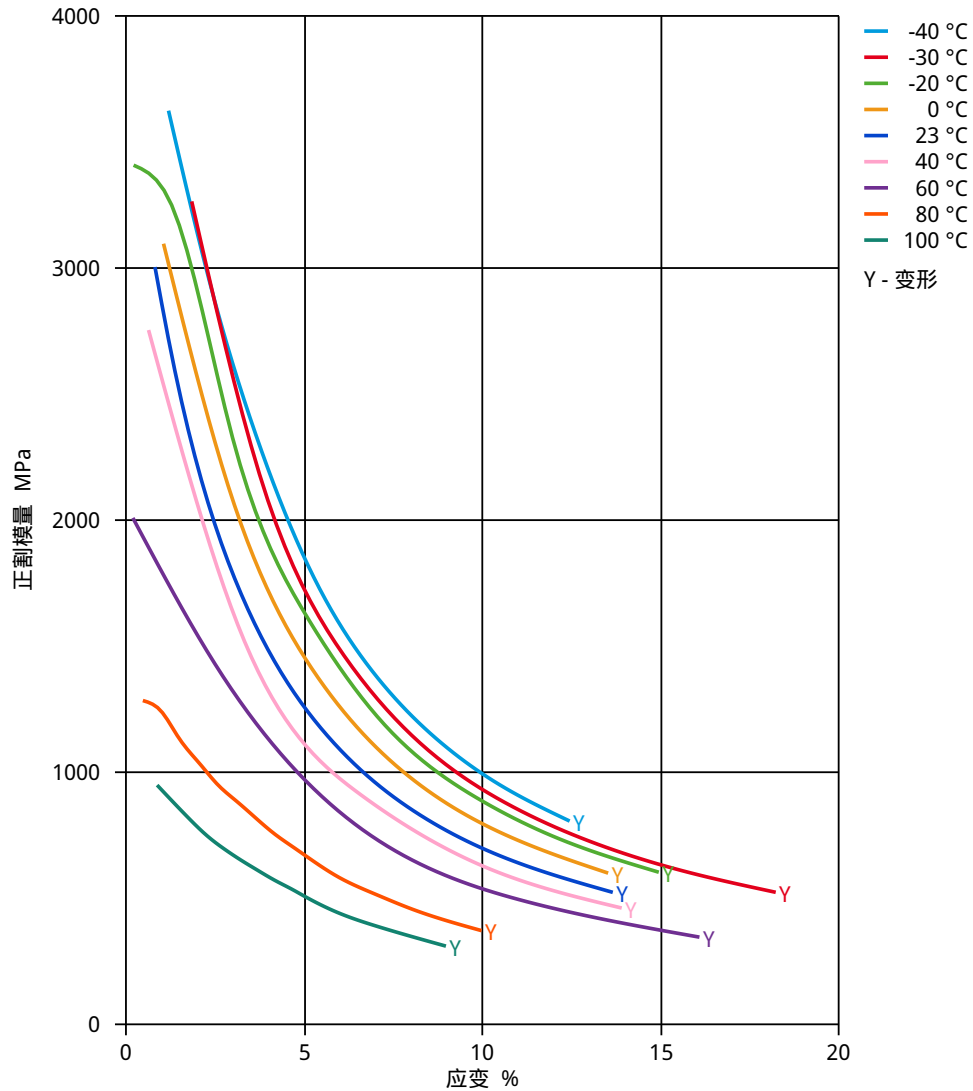




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正割模量 - 应变.



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