



Delrin® 911DP 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® 911DP NC010是一种成核化 低粘度均聚甲醛

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	21 cm ³ /10min	ISO 1133
熔体质量流动速率	24 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	1.9 %	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	3600 MPa	ISO 527-1/-2
屈服应力	75 MPa	ISO 527-1/-2
屈服伸长率	10 %	ISO 527-1/-2
名义断裂伸长率	20 %	ISO 527-1/-2
弯曲模量	3300 MPa	ISO 178
弯曲应力 (3.5%应变)	90 MPa	ISO 178
简支梁无缺口冲击强度, +23°C	160 kJ/m ²	ISO 179/1eU
简支梁无缺口冲击强度, -30°C	150 kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	6.5 kJ/m ²	ISO 179/1eA
简支梁缺口冲击强度, -30°C	6 kJ/m ²	ISO 179/1eA
球压痕硬度	175 ^[DS] MPa	ISO 2039-1
Poisson's ratio	0.36 -	

[DS]: Derived from similar grade



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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	108 °C	ISO 75-1/-2
热变形温度, 0.45 MPa	163 °C	ISO 75-1/-2
线膨胀系数, 平行	100 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	110 °C	UL 746B
相对温度指数, 电气性能, 3mm	110 °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	85 °C	UL 746B
相对温度指数, 冲击, 3mm	90 °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	90 °C	UL 746B
相对温度指数, 强度, 3mm	95 °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	0.8 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	25 mm/min	ISO 3795 (FMVSS 302)

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

VDA性能

甲醛散发	<8 mg/kg	VDA 275
雾化	97 %	ISO 6452
雾化	0.1 mg	ISO 6452

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

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注塑 熔体温度	220 °C
螺杆切线速度	0.3 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	7.5 s/mm
回火时间, 可选	30 min/mm
回火温度	160 °C

薄膜挤出成型

干燥温度	75 - 85 °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	200 °C
熔体温度范围	195 - 205 °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:

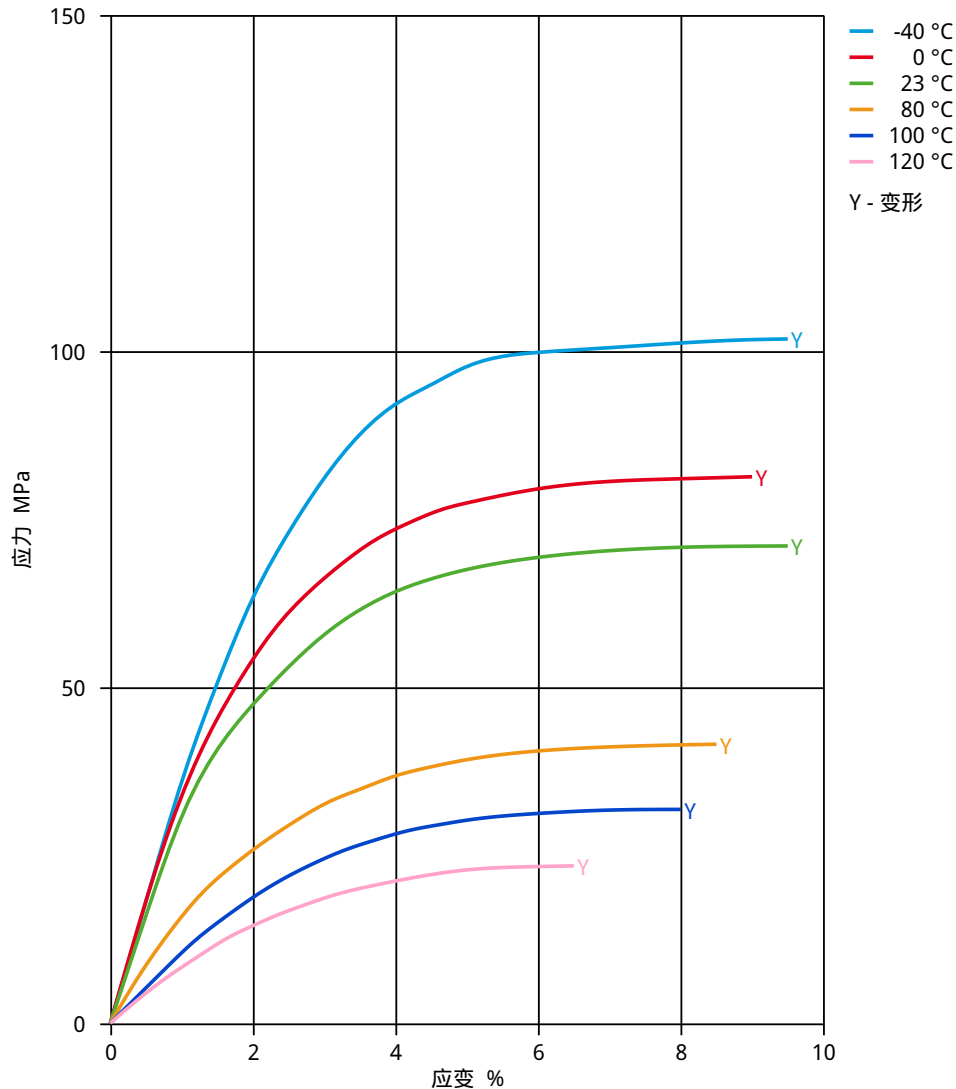
- If moisture is above the Processing Moisture Content recommendation,
- When a resin container is damaged,
- When the material is not properly stored in a dry place at room temperature, or
- When packaging stays open for a significant time.



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应力 - 应变.



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