



Delrin® 300TE 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® 300TE NC010是一种增韧 中高粘度均聚甲醛具有低挥发性

总说明

树脂鉴别	POM-I	ISO 1043
制品标识码	>POM-I<	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	1.3 %	ISO 294-4, 2577
模塑收缩率, 垂直	1.5 %	ISO 294-4, 2577

机械性能

拉伸模量	1900 MPa	ISO 527-1/-2
屈服应力	53 MPa	ISO 527-1/-2
屈服伸长率	20 %	ISO 527-1/-2
名义断裂伸长率	36 %	ISO 527-1/-2
弯曲模量	1900 MPa	ISO 178
弯曲应力 (3.5%应变)	56 MPa	ISO 178
简支梁缺口冲击强度, +23°C	16 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	69.3 -	ISO 2039-2
洛氏硬度, Rockwell	116 -	ISO 2039-2
Poisson's ratio	0.41 -	

Tribological properties

滑动摩擦系数, 1h, 钢	0.7	ASTM 1894
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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	71 °C	ISO 75-1/-2
热变形温度, 0.45 MPa	132 °C	ISO 75-1/-2
维卡软化温度, 50°C/h 10N	172 °C	ISO 306
线膨胀系数, 平行	120 E-6/K	ISO 11359-1/-2
线膨胀系数, 垂直	125 E-6/K	ISO 11359-1/-2
熔体	0.21 W/(m K)	
熔体的比热	2880 J/(kg K)	

燃烧性能

FMVSS Class	B -	ISO 3795 (FMVSS 302)
燃烧速率, 厚度: 1毫米	46 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	1380 kg/m ³	ISO 1183
熔体密度	1150 kg/m ³	

VDA性能

甲醛散发	<2 mg/kg	VDA 275
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注塑

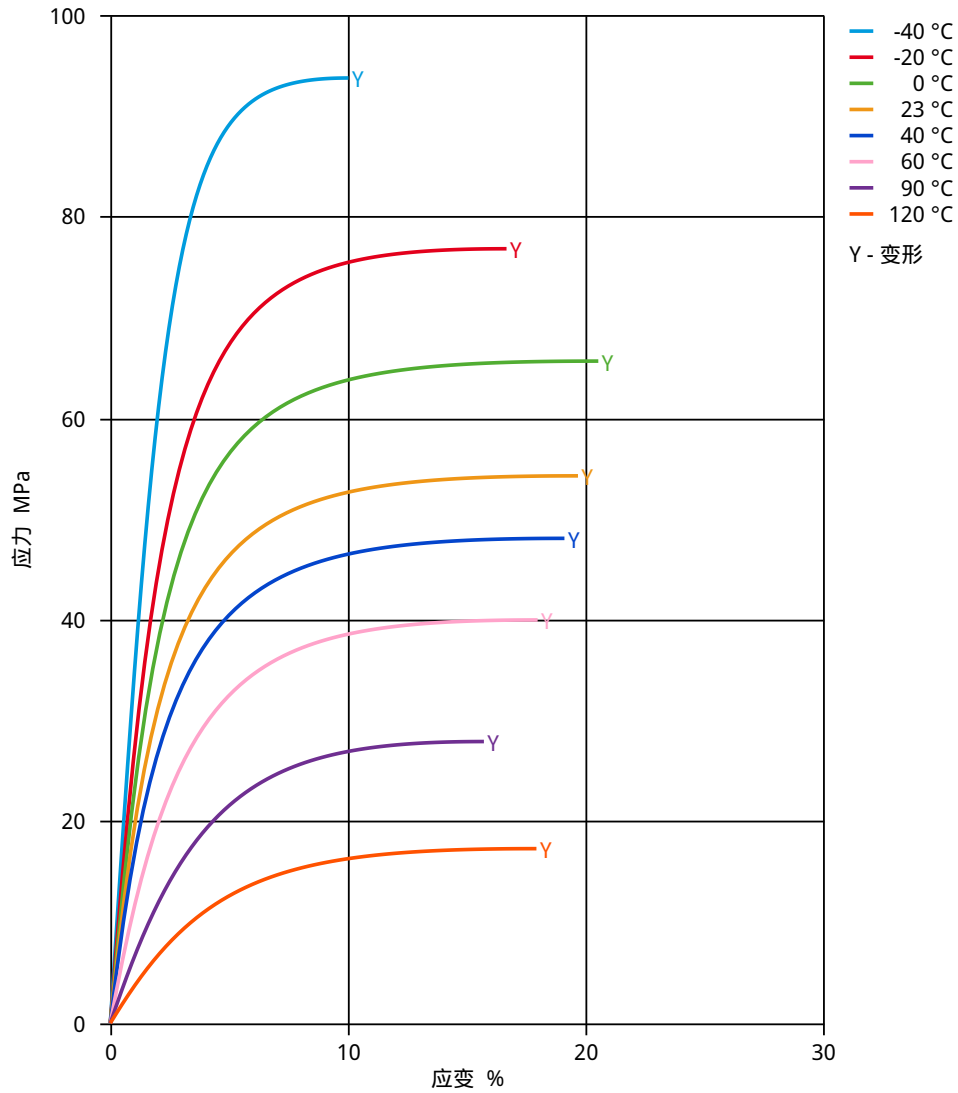
建议干燥	是
干燥温度	80 °C
干燥时间, 除湿干燥机	4 - 8 h
加工前水分含量	≤ 0.05 %
熔体温度	205 °C 注
塑 熔体温度	200 °C
注塑 熔体温度	210 °C
螺杆切线速度	0.2 m/s
模具温度	50 °C
模具温度	40 °C
模具温度	60 °C
保压范围	60 - 80 MPa
保压时间	7.5 s/mm
喷射温度	115 °C
回火时间, 可选	30 min/mm
回火温度	160 °C



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应力 - 应变.

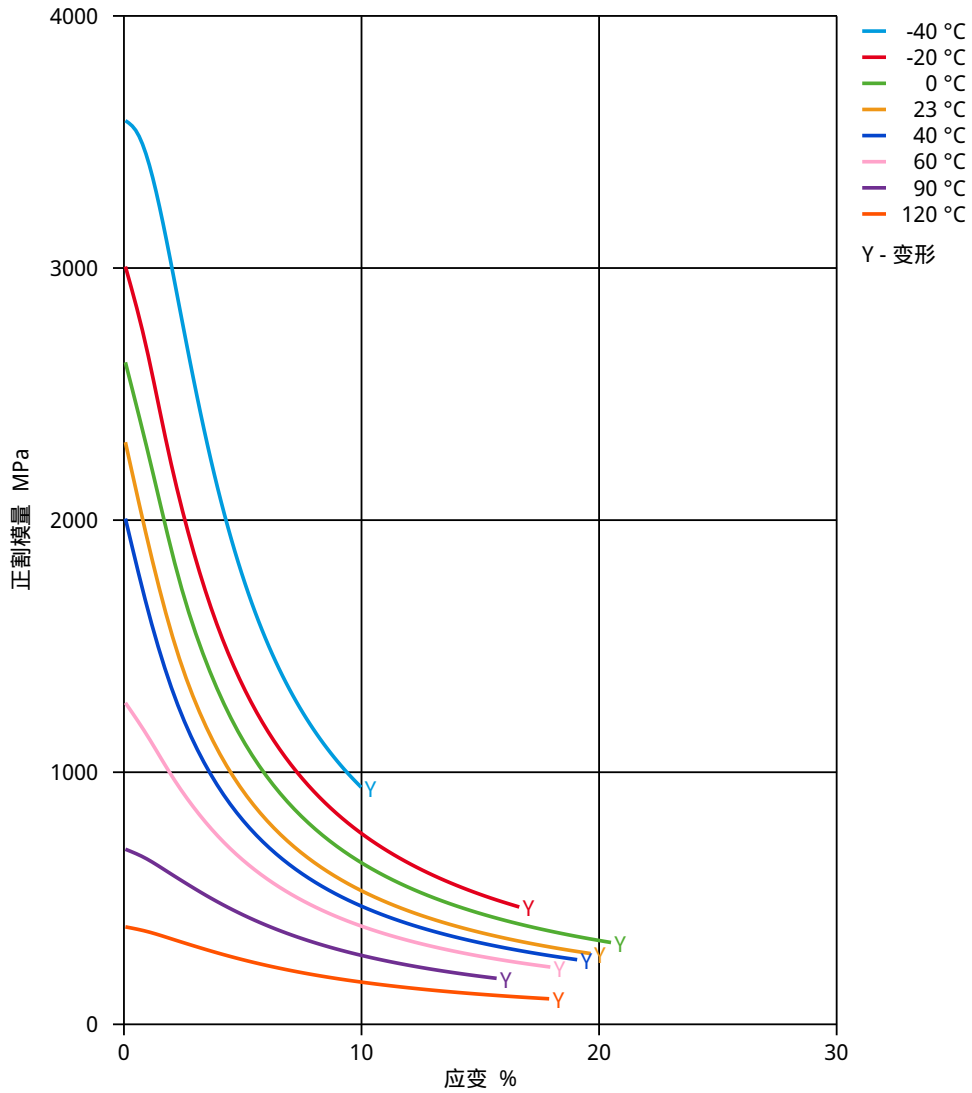




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正割模量 - 应变.

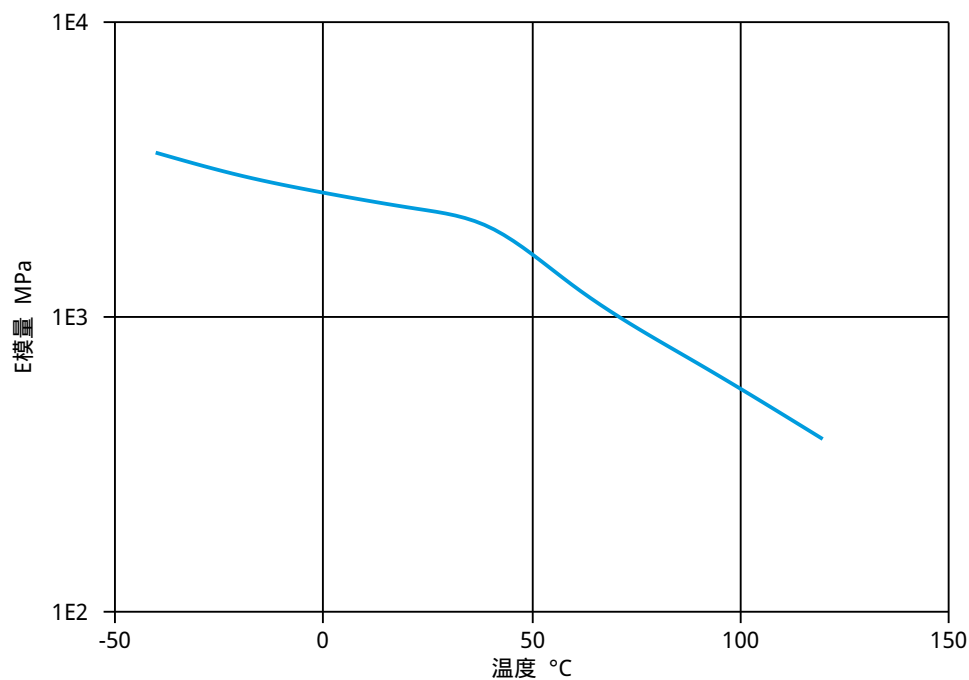




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拉伸模量 - 温度



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