



Delrin® 500T 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® 500T NC010是一种增韧 中等粘度均聚甲醛

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	10 cm ³ /10min	ISO 1133
熔体质量流动速率	12 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	1.5 %	ISO 294-4, 2577
模塑收缩率, 垂直	1.6 %	ISO 294-4, 2577

机械性能

拉伸模量	2300 MPa	ISO 527-1/-2
屈服应力	55 MPa	ISO 527-1/-2
屈服伸长率	18 %	ISO 527-1/-2
名义断裂伸长率	35 %	ISO 527-1/-2
弯曲模量	2100 MPa	ISO 178
弯曲应力 (3.5%应变)	60 MPa	ISO 178
拉伸蠕变模量, 1h	2300 MPa	ISO 899-1
拉伸蠕变模量, 1000h	1200 MPa	ISO 899-1
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	330 kJ/m ²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	13 kJ/m ²	ISO 179/1eA
简支梁缺口冲击强度, -30°C	8.5 kJ/m ²	ISO 179/1eA
悬臂梁缺口冲击强度, 23°C	14 kJ/m ²	ISO 180/1A
悬臂梁缺口冲击强度, -40°C	9 kJ/m ²	ISO 180/1A
洛氏硬度	79 -	ISO 2039-2
洛氏硬度, Rockwell	117 -	ISO 2039-2
球压痕硬度	155 MPa	ISO 2039-1
Poisson's ratio	0.39 -	



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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	80 °C	ISO 75-1/-2
热变形温度, 0.45 MPa	145 °C	ISO 75-1/-2
维卡软化温度, 50°C/h 50N	140 °C	ISO 306
维卡软化温度, 50°C/h 10N	172 °C	ISO 306
线膨胀系数, 平行	130 E-6/K	ISO 11359-1/-2
线膨胀系数, 垂直	120 E-6/K	ISO 11359-1/-2
相对温度指数, 电气性能, 0.75mm	105 °C	UL 746B
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, 冲击, 0.75mm	85 °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	85 °C	UL 746B
相对温度指数, 强度, 0.75mm	85 °C	UL 746B
相对温度指数, 强度, 1.5mm	85 °C	UL 746B
相对温度指数, 强度, 3mm	85 °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
灼热丝燃烧指数, 1mm	550 °C	IEC 60695-2-12
灼热丝燃烧指数, 2mm	550 °C	IEC 60695-2-12
灼热丝燃烧指数, 3mm	550 °C	IEC 60695-2-12
FMVSS Class	B -	ISO 3795 (FMVSS 302)
燃烧速率, 厚度: 1毫米	45 mm/min	ISO 3795 (FMVSS 302)

电性能

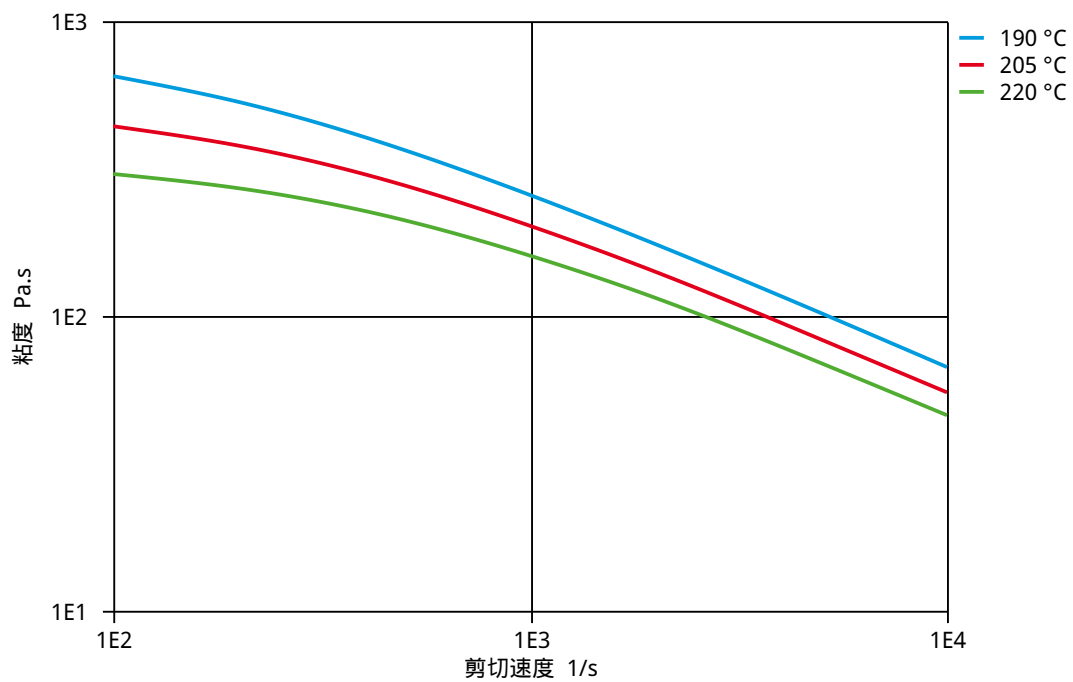
相对介电常数., 100Hz	3.6 -	IEC 62631-2-1
相对介电常数., 1MHz	3.6 -	IEC 62631-2-1
介质损耗因子, 1MHz	160 E-4	IEC 62631-2-1
体积电阻率	>1E13 Ohm.m	IEC 62631-3-1
表面电阻率	1E15 Ohm	IEC 62631-3-2
相对漏电起痕指数	600 -	IEC 60112



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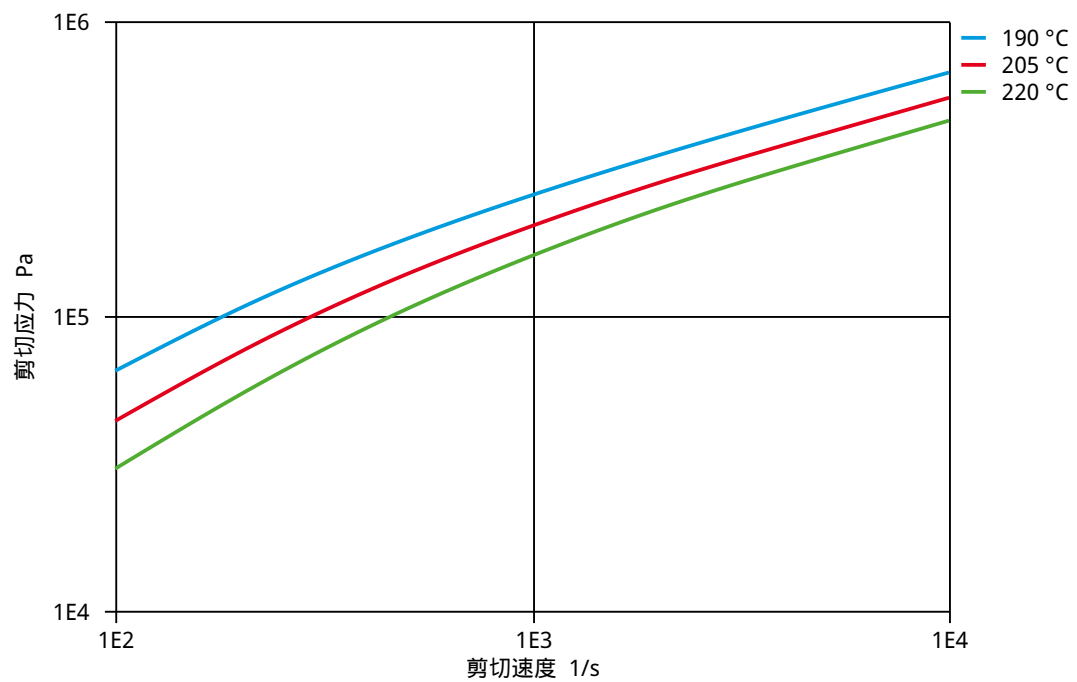
粘度 - 剪切速度



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剪切应力 - 剪切速度

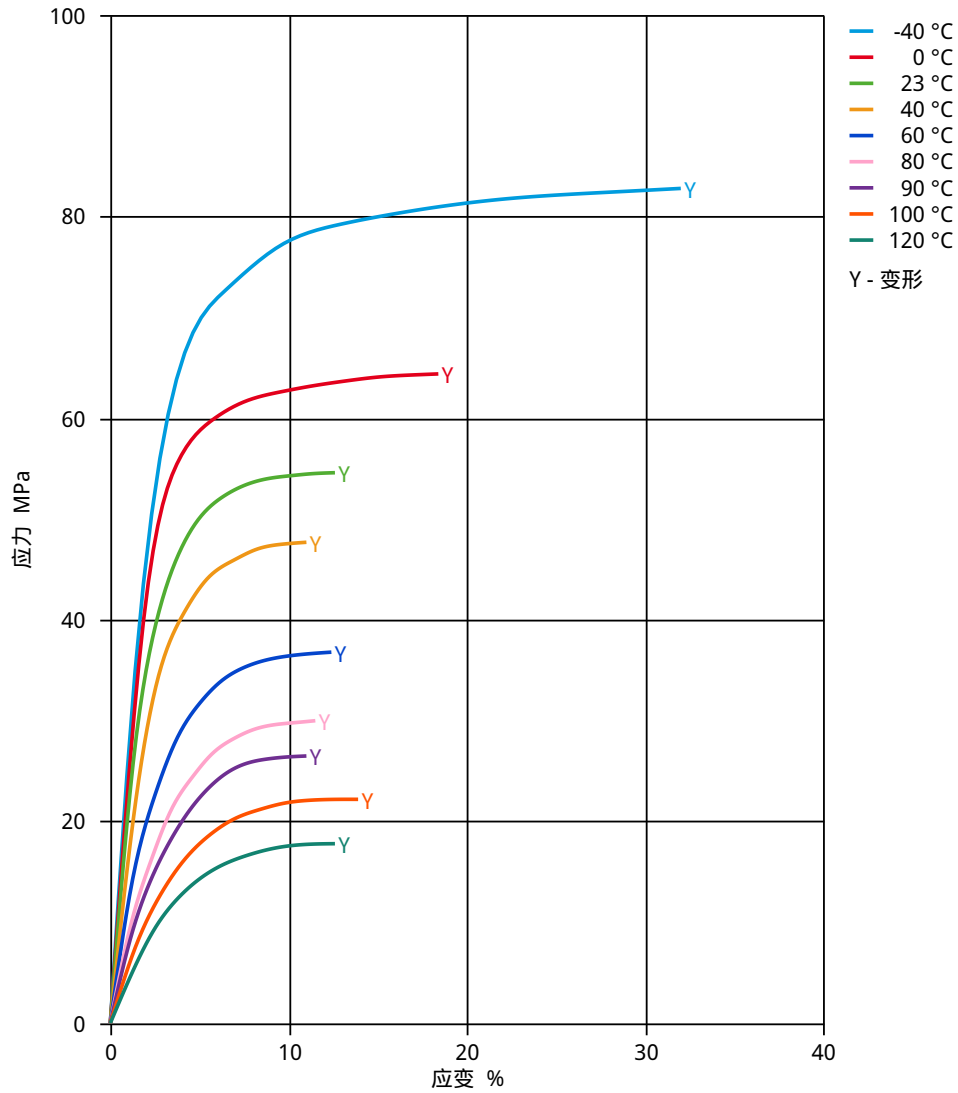




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应力 - 应变.

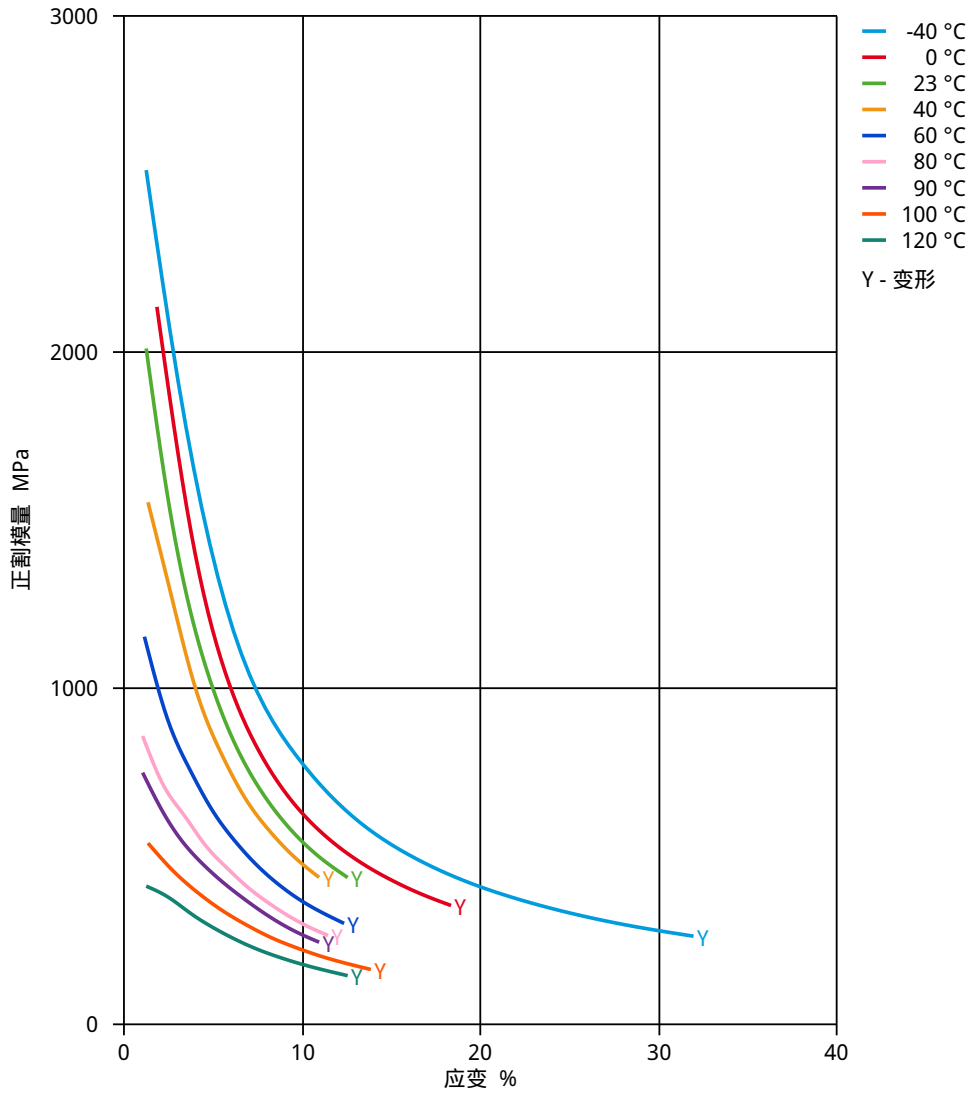




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ACETAL RESIN

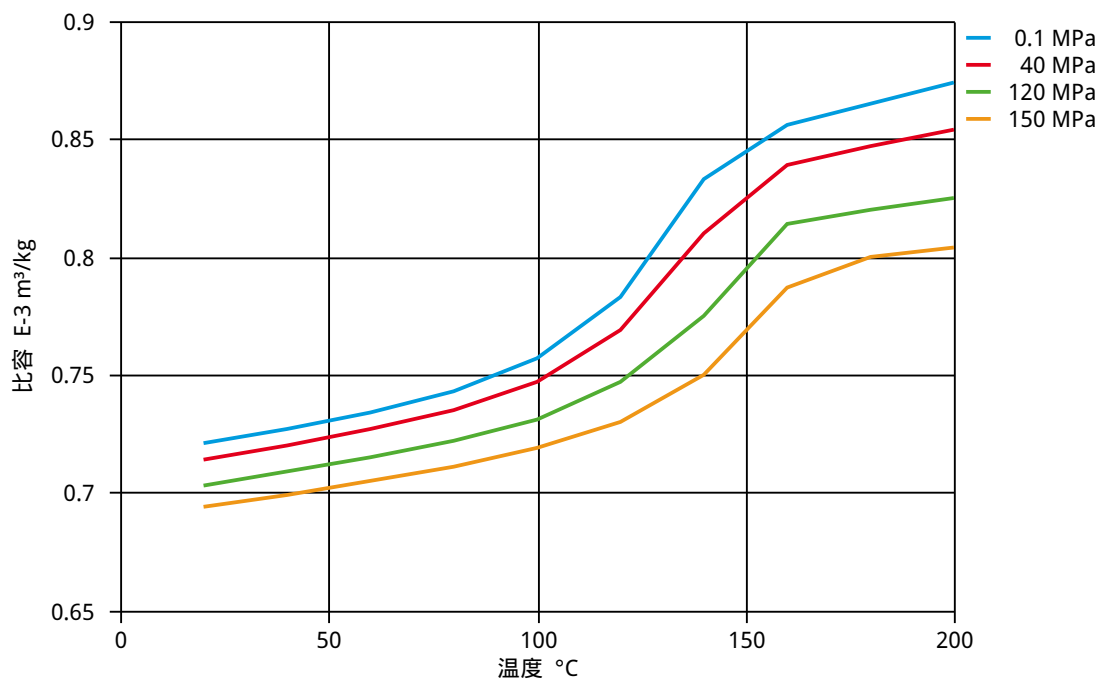
正割模量 - 应变.



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比容 - 温度(pvT)

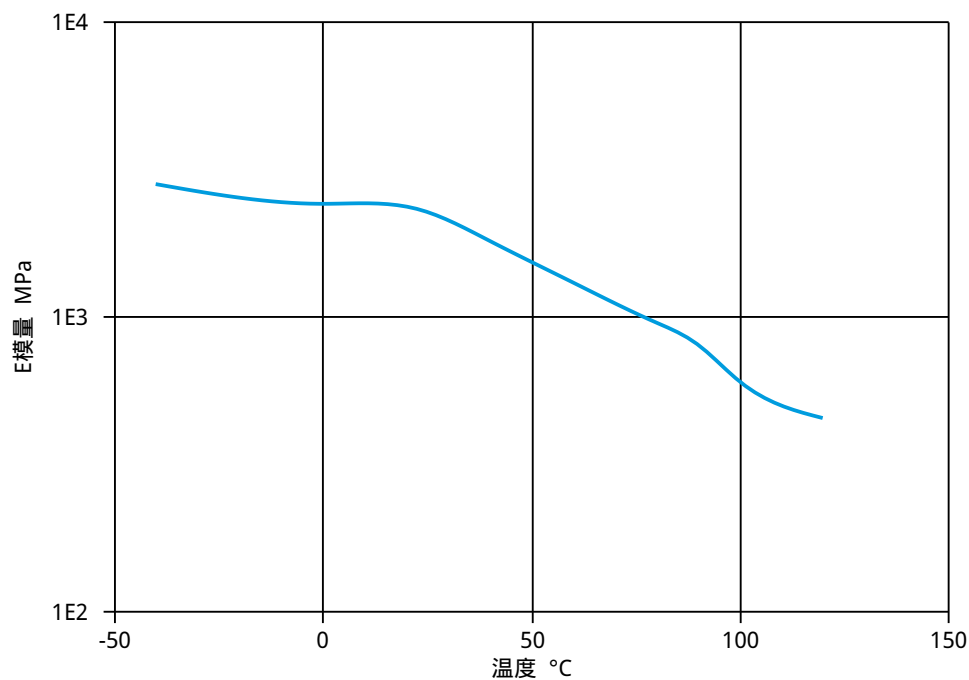




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拉伸模量 - 温度



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