



# Delrin® 300TE BK602

## ACETAL RESIN

Common features of Delrin® acetal resins include mechanical and physical properties such as high mechanical strength and rigidity, excellent fatigue and impact resistance, as well as resistance to moisture, gasoline, lubricants, solvents, and many other neutral chemicals. Delrin® acetal resins also have excellent dimensional stability and good electrical insulating characteristics. They are naturally resilient, self-lubricating, and available in a variety of colors and speciality grades.

Delrin® acetal resin typically is used in demanding applications in the automotive, domestic appliances, sports, industrial engineering, electronics, and consumer goods industries.

Delrin® 300TE is a toughened medium-high viscosity acetal homopolymer for injection molding with very low VOC emissions for applications in automotive interiors.

### 总说明

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

### 流变性能

熔体质量流动速率	6 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	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	2000 MPa	ISO 527-1/-2
屈服应力	54 MPa	ISO 527-1/-2
屈服伸长率	20 %	ISO 527-1/-2
名义断裂伸长率	35 %	ISO 527-1/-2
弯曲模量	2000 MPa	ISO 178
弯曲应力 (3.5%应变)	55 MPa	ISO 178
简支梁缺口冲击强度, +23°C	15 kJ/m <sup>2</sup>	ISO 179/1eA
简支梁缺口冲击强度, -30°C	8 kJ/m <sup>2</sup>	ISO 179/1eA
洛氏硬度	69 -	ISO 2039-2
洛氏硬度, Rockwell	116 -	ISO 2039-2
Poisson's ratio	0.4 -	

### 热性能

热变形温度, 1.80 MPa	78 °C	ISO 75-1/-2
热变形温度, 0.45 MPa	136 °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	110 E-6/K	ISO 11359-1/-2

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线膨胀系数, 垂直 120 E-6/K ISO 11359-1/-2

### 燃烧性能

FMVSS Class B - ISO 3795 (FMVSS 302)  
 燃烧速率, 厚度: 1毫米 57<sup>[1]</sup> mm/min ISO 3795 (FMVSS 302)  
 [1]: 2mm

### 其它性能

密度 1370 kg/m<sup>3</sup> ISO 1183  
 熔体密度 1150 kg/m<sup>3</sup>

### VDA性能

甲醛散发 <2 mg/kg VDA 275

### 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  
 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 ≤ 0.05 %  
 熔体温度 200 °C  
 熔体温度范围 195 - 205 °C

### 典型数据

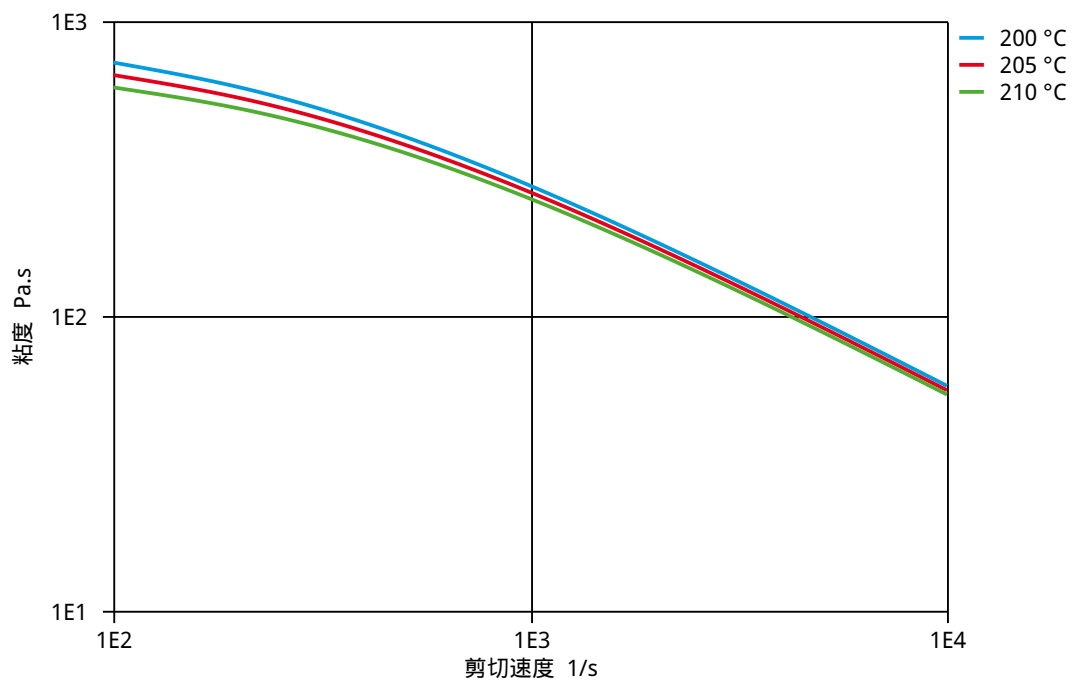
添加剂 脱模助剂



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粘度 - 剪切速度

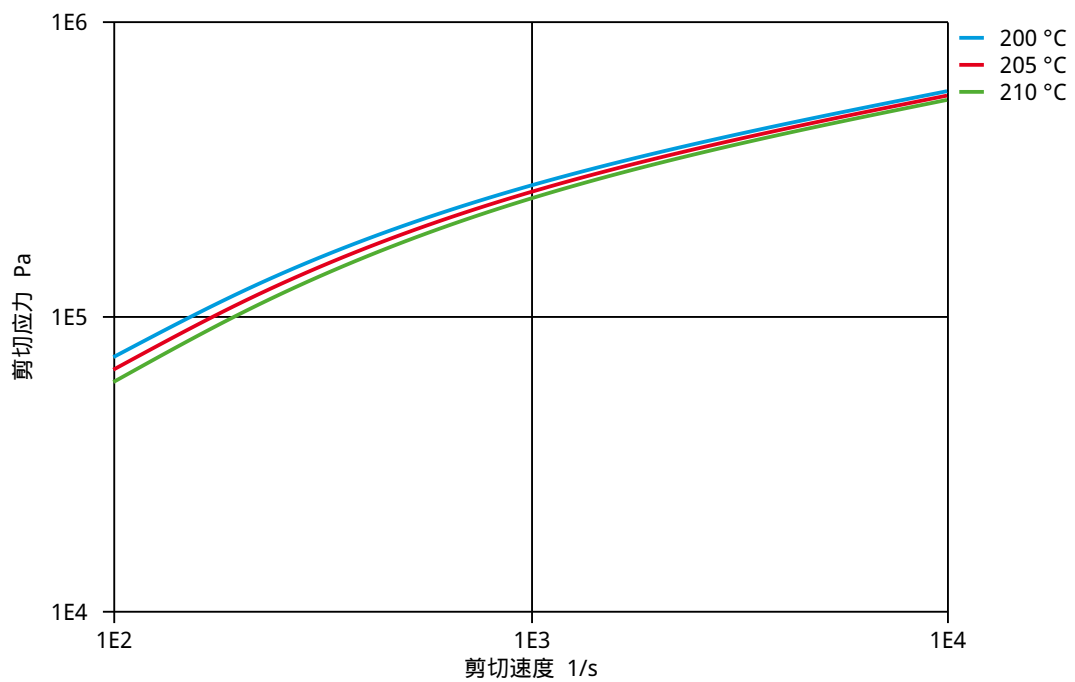




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ACETAL RESIN

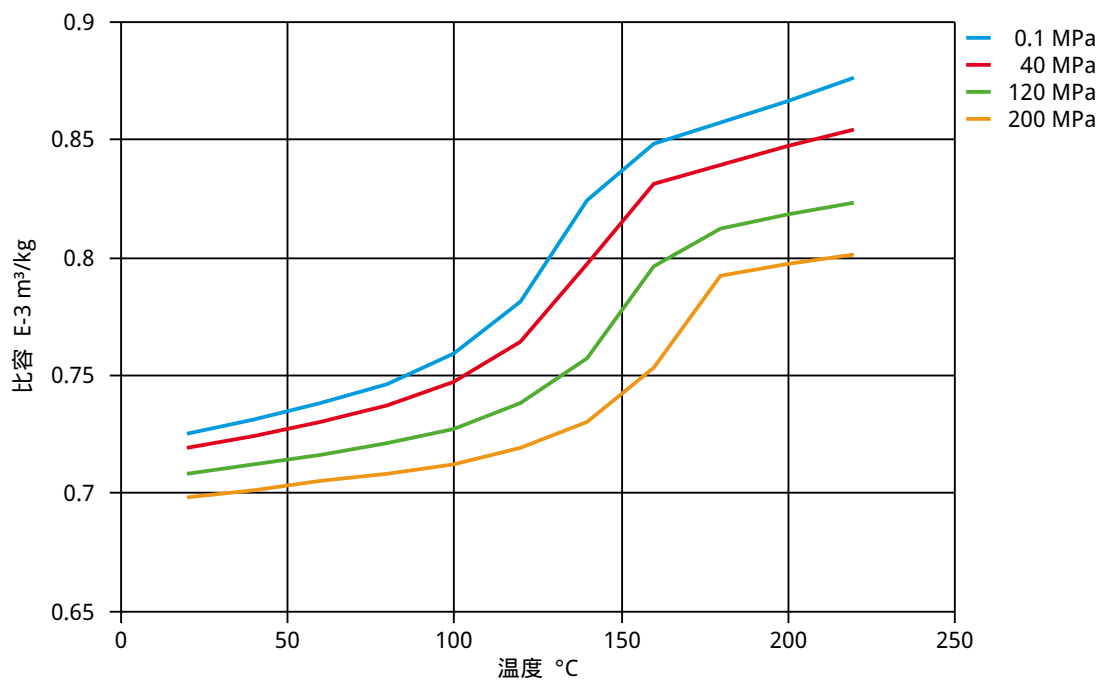
剪切应力 - 剪切速度



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### 比容 - 温度(pvT)



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