

DuPont™ Delrin® SC655 NC010

ACETAL RESIN

产品

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® SC655 is a medium viscosity acetal homopolymer, developed for parts requiring high precision molding in the healthcare industry.

SPECIAL CONTROL for HEALTHCARE APPLICATIONS

This product is manufactured according to Good Manufacturing Practice (GMP) principles and generally accepted in food contact applications in Europe and the USA when meeting applicable use conditions. This product is also tested against ISO 10993-5 and -11 and selected parts of USP Class VI. For details, individual compliance statements are available from your DuPont representative.

总说明	数值	单位	测试标准
树脂鉴别	POM	-	ISO 1043
产品标识码	POM	-	ISO 11469
流变性能	数值	单位	测试标准
熔体体积流动速度, MVR	13	cm ³ /10min	ISO 1133
温度	190	°C	ISO 1133
负荷	2.16	kg	ISO 1133
熔体质量流动速率	15	g/10min	ISO 1133
模塑收缩率, 平行	2.0	%	ISO 294-4, 2577
模塑收缩率, 垂直	1.9	%	ISO 294-4, 2577
机械性能	数值	单位	测试标准
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	17	%	ISO 527-1/-2
名义断裂伸长率	30	%	ISO 527-1/-2
弯曲模量	2950	MPa	ISO 178
弯曲应力 (3.5%应变)	80	MPa	ISO 178
拉伸蠕变模量			ISO 899-1
1h	2800	MPa	
1000h	1600	MPa	
无缺口简支梁冲击强度			ISO 179/1eU
+23°C	320	kJ/m ²	
-30°C	280	kJ/m ²	
简支梁缺口冲击强度			ISO 179/1eA
+23°C	9	kJ/m ²	
-30°C	8	kJ/m ²	
冲孔最大力, +23°C	2000	N	ISO 6603-2
冲孔功, +23°C	3	J	ISO 6603-2
悬臂梁缺口冲击强度			ISO 180/1A
23°C	9	kJ/m ²	
-30°C	8	kJ/m ²	
无缺口悬臂梁冲击强度			ISO 180/1U
23°C	280	kJ/m ²	
-30°C	250	kJ/m ²	
洛氏硬度	92	-	ISO 2039-2
洛氏硬度, Rockwell	120	-	ISO 2039-2
热性能	数值	单位	测试标准
熔融温度, 10°C/min	178	°C	ISO 11357-1/-3
热变形温度			ISO 75-1/-2
1.80 MPa	95	°C	
0.45 MPa	160	°C	

To find out more, visit [DuPont Performance Polymers](#) or contact nearest DuPont location.

North America

Asia Pacific

Europe/Middle East/Africa

DONGGUAN FUMEI PLASTICS CO.,LTD.

TEL: +86 0769-82339888 / 87798999

EMAIL: fumei@foomx.com

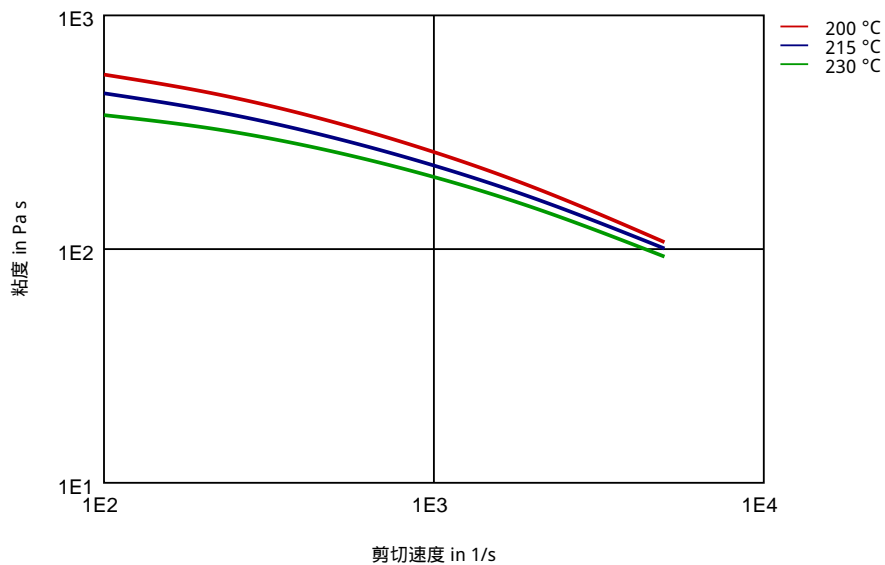


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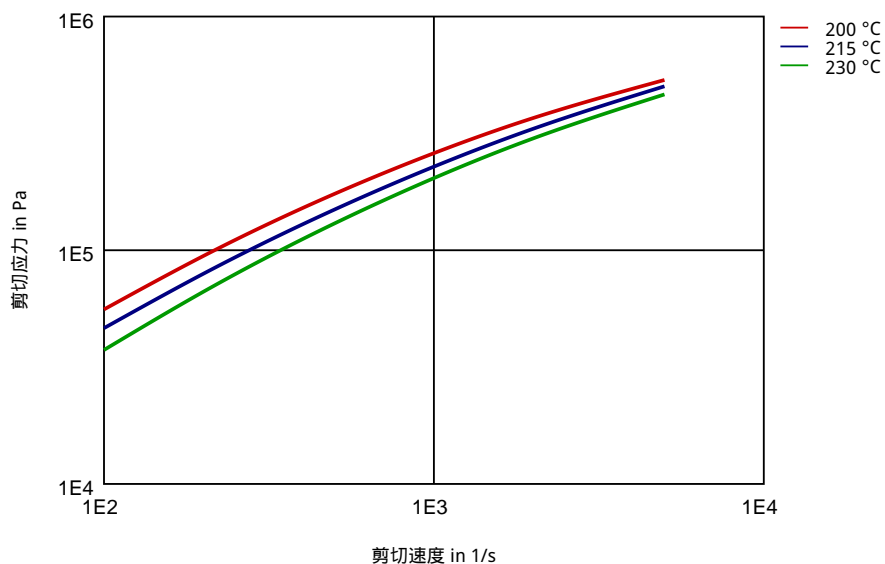
ACETAL RESIN

图表

粘度 - 剪切速度



剪切应力 - 剪切速度



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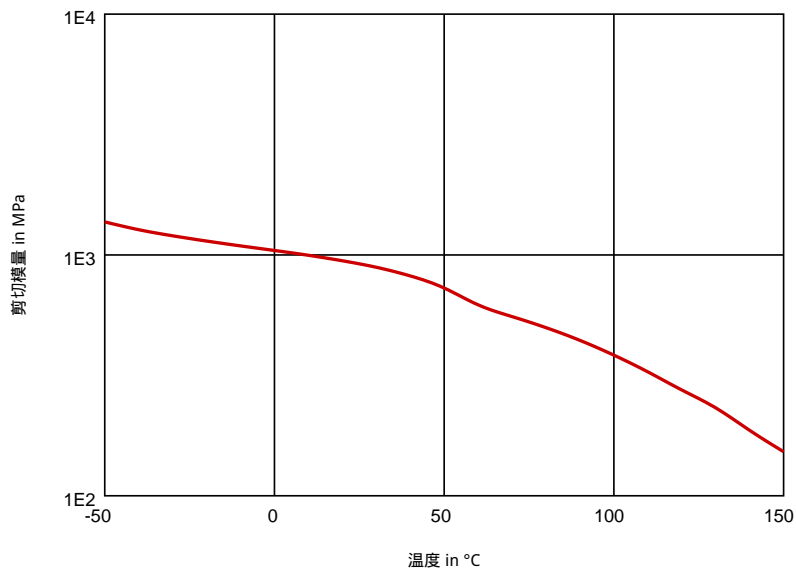
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ACETAL RESIN

动态剪切模量 - 温度



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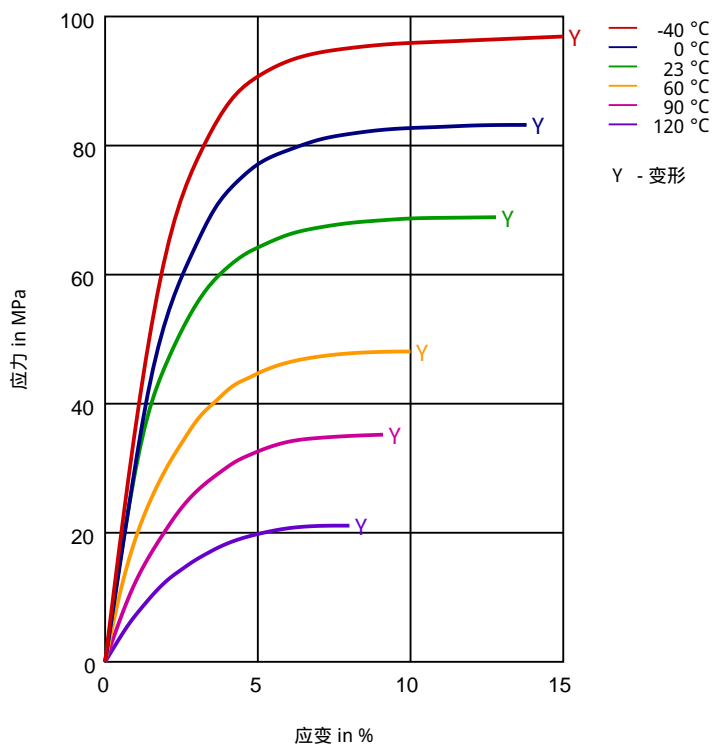
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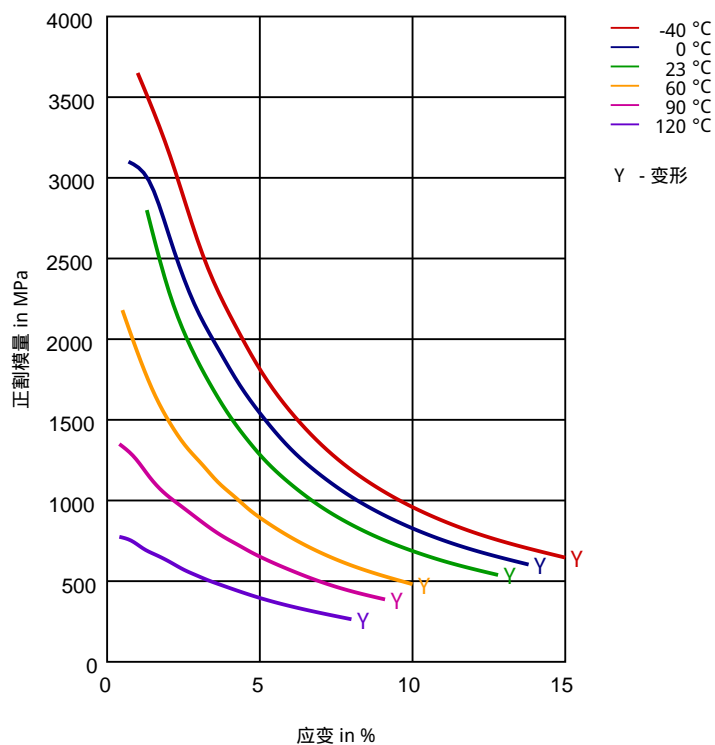
应力 - 应变.



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正割模量 - 应变.



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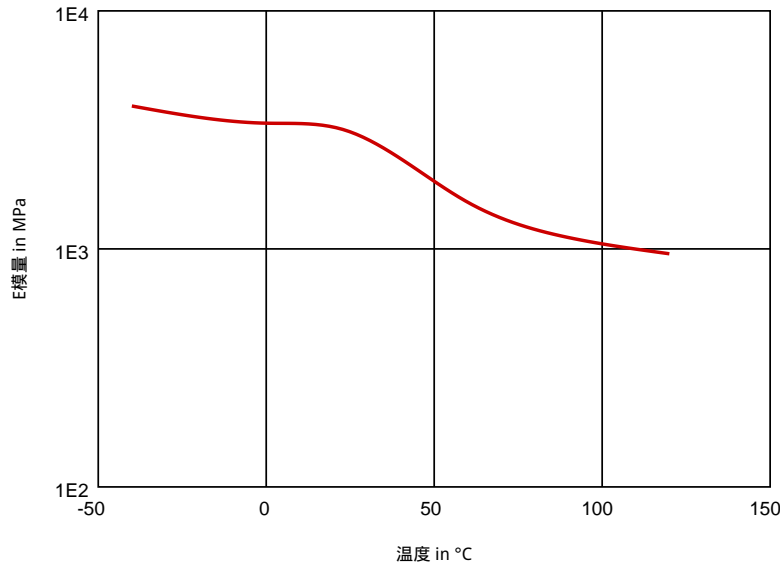
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ACETAL RESIN

拉伸模量 - 温度



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