RILSAN®
CLEAR G170

Rilsan® Clear G170 是一种高性能透明聚酰胺树脂，具有出色的耐热性。该设计用于注塑应用。

性能	干 / 已调节	单位	测试标准
流变性能			
熔体体积流动速度	2 / *	cm³/10min	ISO 1133
温度	275 / *	°C	-
	527 / *	°F	
载荷	2.16 / *	kg	-
	4.76 / *	lb	
模塑收缩率, 平行	1.1 / *	%	ISO 294-4, 2577
模塑收缩率, 垂直	1.1 / *	%	ISO 294-4, 2577
机械性能			
拉伸模量	2100 / 2020	MPa	ISO 527-1/-2
	305000 / 293000	psi	
屈服应力	76 / 74	MPa	ISO 527-1/-2
	11000 / 10700	psi	
屈服伸长率	8 / 9	%	ISO 527-1/-2
名义断裂伸长率	>50 / >50	%	ISO 527-1/-2
肖氏硬度D, 15 s	79 / *	-	ISO 868
简支梁冲击强度, +23°C	- / 无断裂	kJ/m²	ISO 179/1eU
简支梁冲击强度, -30°C	无断裂 / 无断裂	kJ/m²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	- / 13	kJ/m²	ISO 179/1eA
	- / 6.18	ftlb/in²	
简支梁缺口冲击强度, -30°C	- / 13	kJ/m²	ISO 179/1eA
	- / 6.18	ftlb/in²	
热性能			
玻璃化转变温度, 10°C/min	168 / *	°C	ISO 11357-1/-2
	334 / *	°F	
热变形温度, 1.80 MPa	136 / *	°C	ISO 75-1/-2
	277 / *	°F	
热变形温度, 0.45 MPa	150 / *	°C	ISO 75-1/-2
	302 / *	°F	
维卡软化温度, 50°C/h 50N	160 / *	°C	ISO 306
	320 / *	°F	
线性热膨胀系数, 平行	70 / *	E-6/K	ISO 11359-1/-2

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阻燃等级，1.5mm厚	V-2 / *	class	IEC 60695-11-10
测试用试样的厚度	1.6 / *	mm	-
	0.0630 / *	in	
Yellow Card 现存	是的 / *	-	-
氧指数	26 / *	%	ISO 4589-1/-2
电性能			
体积电阻率	- / 1E11	Ohm*m	IEC 62631-3-1
表面电阻率	* / 1E12	Ohm	IEC 62631-3-2
介电强度	- / 50	kV/mm	IEC 60243-1
	- / 1270	kV/in	
相对耐漏电起痕指数, CTI	* / 600	-	IEC 60112
其它性能			
吸水性, 23°C, immersion, equilibrium	3.8 / *	%	ISO 62
吸湿性	1.7 / *	%	ISO 62
密度	1050 / 1050	kg/m³	ISO 1183
	1.05 / 1.05	g/cm³	
光学特性			
透光率	91	%	ISO 13468-1, -2

主要应用
—咖啡机
—燃料过滤器容器。—光纤和铜质电话缆线的防鼠咬内层。—防鼠咬电缆。注：
阿科玛不建议在医疗应用中使用该牌号。
关于医疗应用，
应当使用Rilsan® Clear G170 MED 。

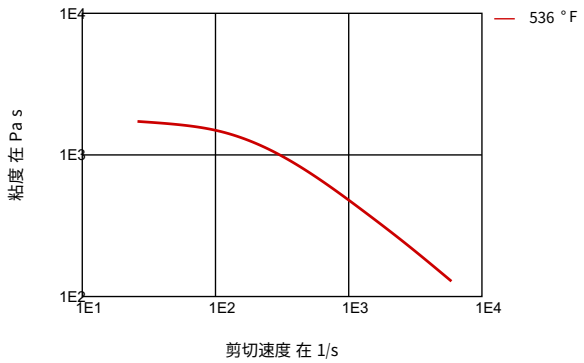
包装
该牌号出厂时已干燥并密封包装（25公斤袋装），可直接进行加工。
保质期
自发货之日起2年。任何与过期使用的相关事宜，请咨询我司技术服务人员。

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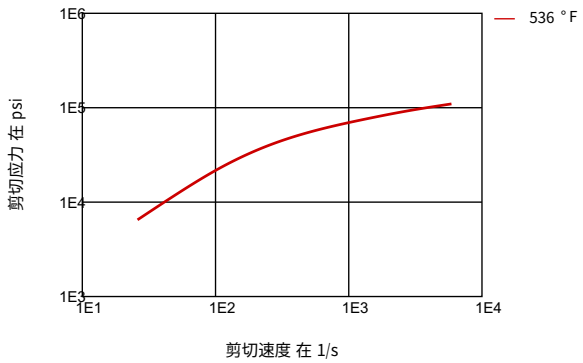
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图表

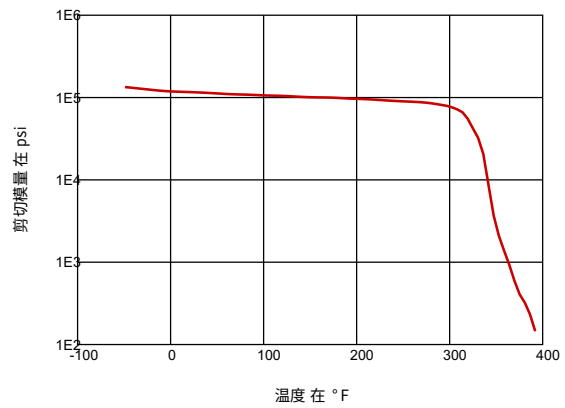
粘度 - 剪切速度



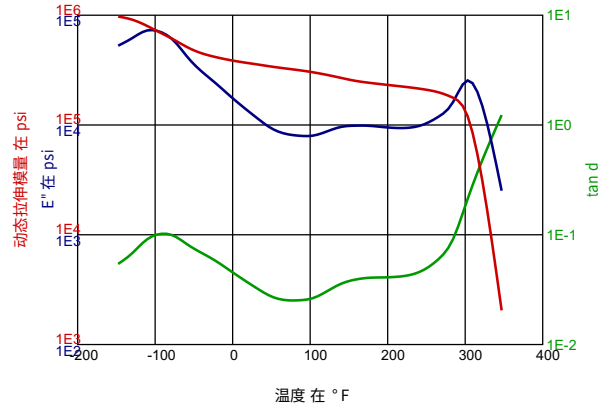
剪切应力 - 剪切速度



动态剪切模量 - 温度



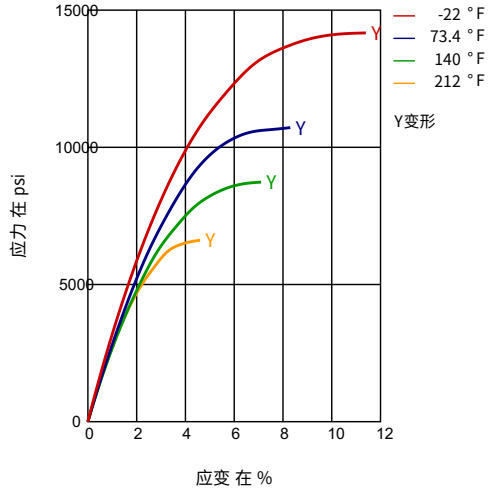
动态拉伸模量 - 温度



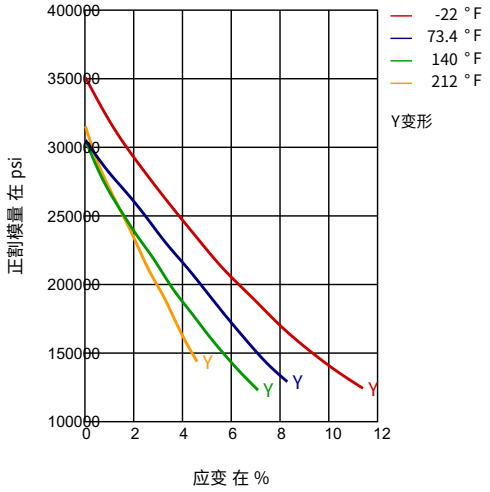
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应力 - 应变.



正割模量 - 应变.



注塑条件：
—推荐熔融温度（最小值/建议值/最大值）：270℃/ 290℃/ 310℃
—推荐成型温度：40 - 80 ℃
—干燥时间和温度（只有包装袋打开2小时以上时才有必要干燥）：4-6小时， 90℃
挤出条件：
—推荐熔融温度（最小值/建议值/最大值）：270℃/ 280℃/ 290℃
—干燥时间和温度（只有包装袋打开2小时以上时才有必要干燥）：4-6小时， 90℃

加工方法 注塑, 其它挤出成型	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com
供货形式 粒料	
特殊性能 透明	Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
地区供应 北美, 欧洲, 亚太, 中南美洲, 中东/非洲	

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