RILSAN®
BESNO P40 TL

PA11-P, EHL, 22-003
Rilsan® BESNO P40 TL树脂 是一种采用可再生材料制成的聚酰胺11。该本色牌号经过增塑，适用于挤出。
依据ASTM D 6866，可再生碳含量 为 89%。

性能	干 / 已调节	单位	测试标准
机械性能			
拉伸模量	- / 345	MPa	ISO 527-1/-2
	- / 50000	psi	
屈服应力	- / 26	MPa	ISO 527-1/-2
	- / 3770	psi	
屈服伸长率	- / 50	%	ISO 527-1/-2
名义断裂伸长率	- / >50	%	ISO 527-1/-2
肖氏硬度D, 15 s	60 / *	-	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	kJ/m²	ISO 179/1eU
简支梁缺口冲击强度, +23°C	- / 无断裂	kJ/m²	ISO 179/1eA
简支梁缺口冲击强度, -30°C	- / 7	kJ/m²	ISO 179/1eA
	- / 3.33	ftlb/in²	
冲孔最大力, -30°C	- / 6000	N	ISO 6603-2
冲孔功, -30°C	- / 70	J	ISO 6603-2
热性能			
熔融温度, 10°C/min	181 / *	°C	ISO 11357-1/-3
热变形温度, 1.80 MPa	45 / *	°C	ISO 75-1/-2
	113 / *	°F	
热变形温度, 0.45 MPa	130 / *	°C	ISO 75-1/-2
	266 / *	°F	
维卡软化温度, 50°C/h 50N	140 / *	°C	ISO 306
	284 / *	°F	
线性热膨胀系数, 平行	110 / *	E-6/K	ISO 11359-1/-2
电性能			
相对介电常数, 100Hz	9 / -	-	IEC 60250
相对介电常数, 1MHz	4 / -	-	IEC 60250
介质损耗因子, 100Hz	2440 / -	E-4	IEC 60250
介质损耗因子, 1MHz	1040 / -	E-4	IEC 60250
体积电阻率	- / 1E9	Ohm*m	IEC 62631-3-1
表面电阻率	* / 5E11	Ohm	IEC 62631-3-2

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Source: automatically generated TDS from Material Database on 20-02-2024

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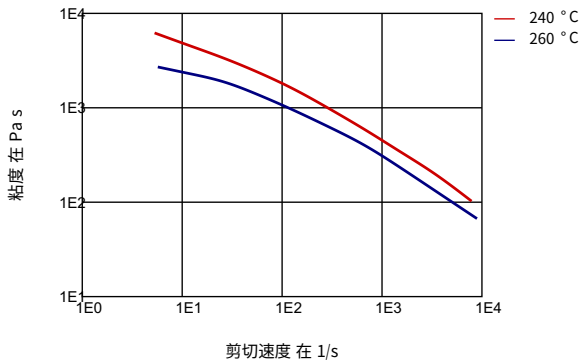
介电强度	- / 23 - / 584	kV/m kV/in	IEC 60243-1
其它性能			
%Bio-Based	89	-	ASTM D6866
吸水性, 23°C, immersion, equilibrium	1.6 / *	%	ISO 62
密度	1040 / 1040 1.04 / 1.04	kg/m³ g/cm³	ISO 1183

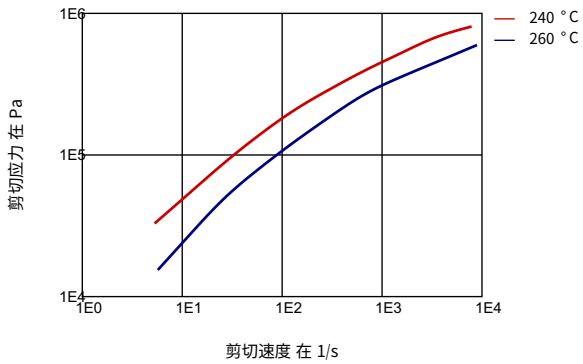
主要应用
—流体运输
—燃料管线
—机动车用管路
—气闸线路
包装
该牌号的供货规格为干燥型密封包装（25公斤袋装、44磅袋装、550公斤硬质容器、1000磅硬质容器），可以随时加工处理。
保质期
自发货之日起2年。有关过期使用的任何事宜，请咨询我司技术服务人员。

图表

粘度 - 剪切速度



剪切应力 - 剪切速度



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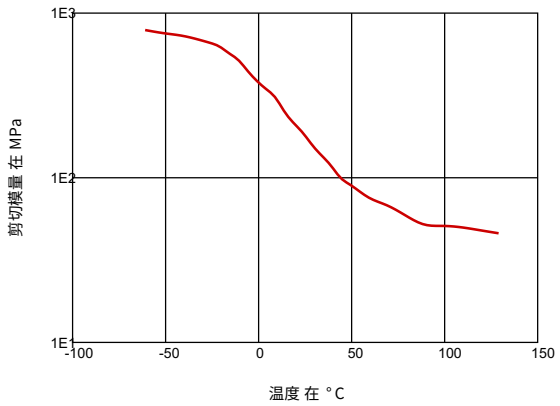
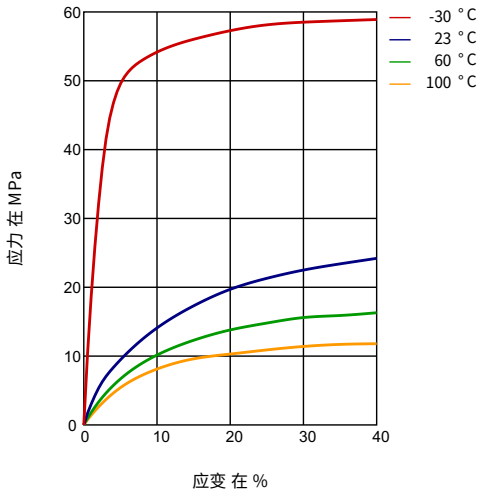
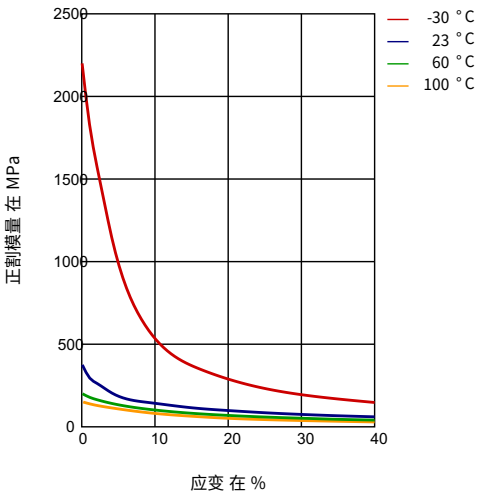
动态剪切模量 - 温度



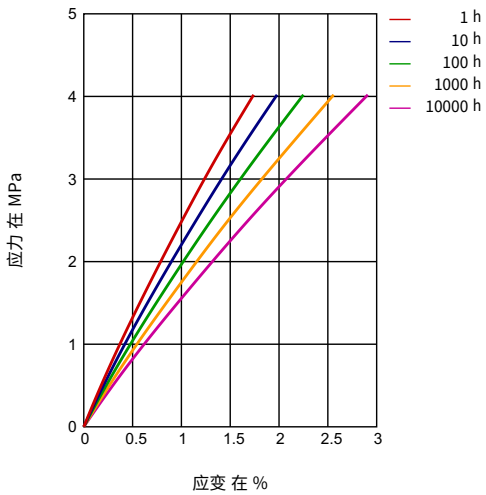
应力 - 应变.



正割模量 - 应变.



应力 - 应变(等时的) 73°F



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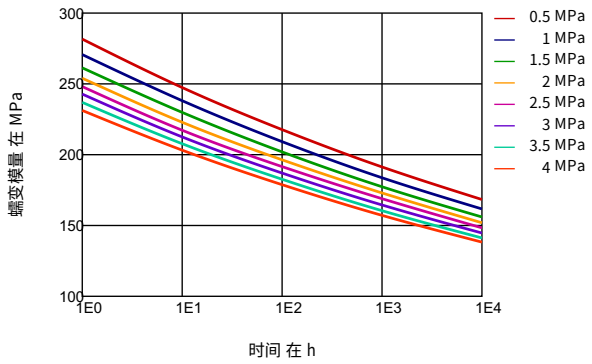
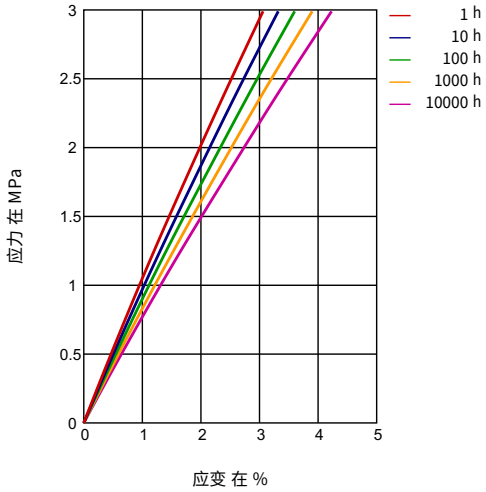
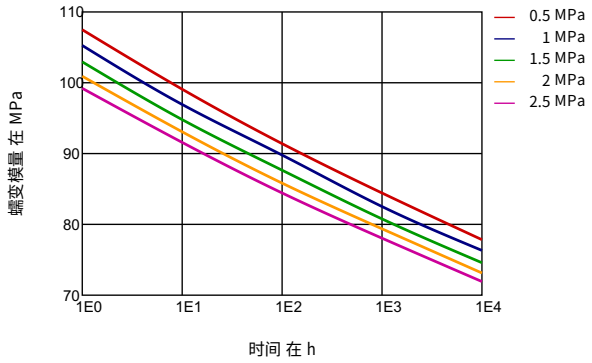
蠕变模量 - 时间. 73°F



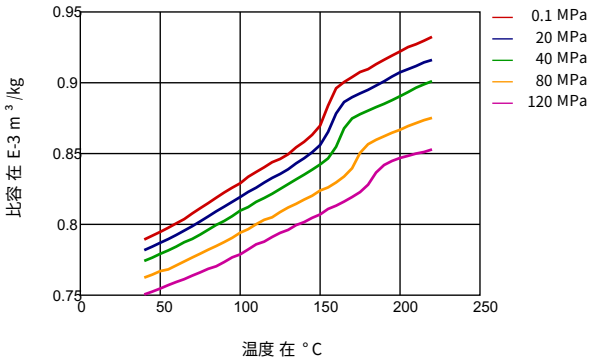
应力 - 应变(等时的) 212°F



蠕变模量 - 时间. 212°F



比容 - 温度(PVT)



加工条件：
—推荐熔融温度（最小值/建议值/最大值）：230℃/250℃/280℃.

—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）：4-8 小时，80-90℃。

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加工方法 异型材挤出成型, 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 Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
供货形式 粒料	
添加剂 润滑剂, 增塑剂	
特殊性能 生物基, 热稳定, 光稳定	
地区供应 北美, 欧洲, 亚太, 中南美洲, 中东/非洲	

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