

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/m ² | ISO 179/1eU |
| 简支梁冲击强度, -30°C | - / 无断裂 | kJ/m ² | ISO 179/1eU |
| 简支梁缺口冲击强度, +23°C | - / 无断裂 | kJ/m ² | ISO 179/1eA |
| 简支梁缺口冲击强度, -30°C | - / 7 | kJ/m ² | ISO 179/1eA |
| | - / 3.33 | ftlb/in ² | |
| 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 |

Arkema France - A French "société anonyme", registered in the Nanterre (France)
 Trade and Companies Register under the number 319 632 790 SDC/11-2018
 Source: automatically generated TDS from Material Database on 12-08-2024

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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/m ³ g/cm ³ | 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

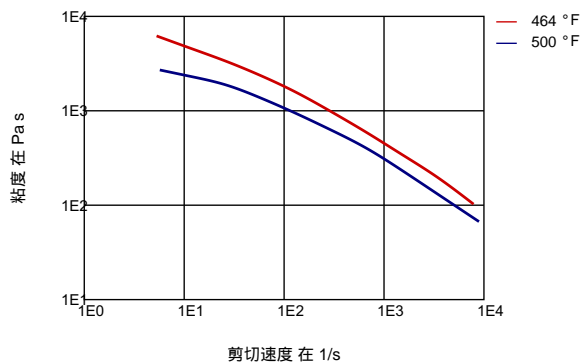
该牌号的供货规格为干燥型密封包装（25公斤袋装、44磅袋装、550公斤硬质容器、1000磅硬质容器），可以随时加工处理。

保质期

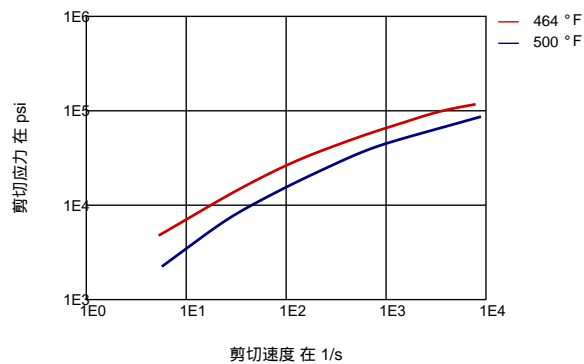
自发货之日起2年。有关过期使用的任何事宜，请咨询我司技术服务人员。

图表

粘度 - 剪切速度

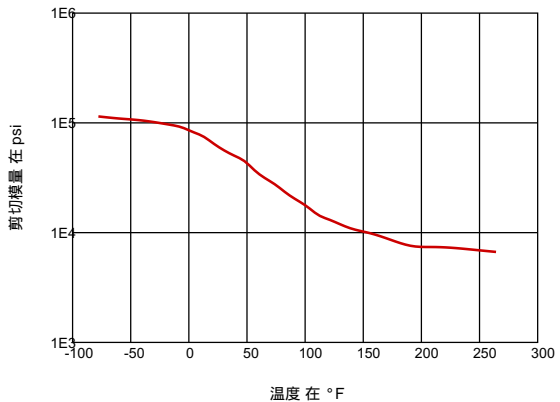


剪切应力 - 剪切速度

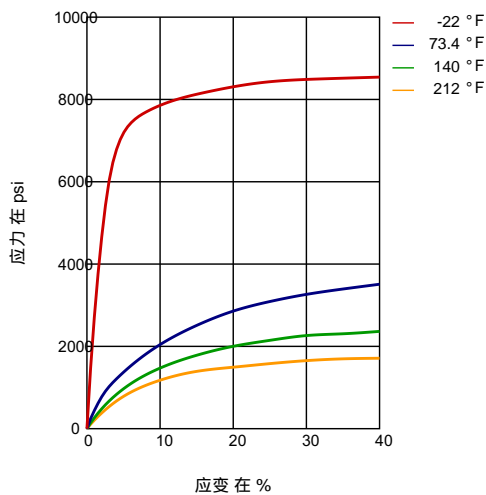


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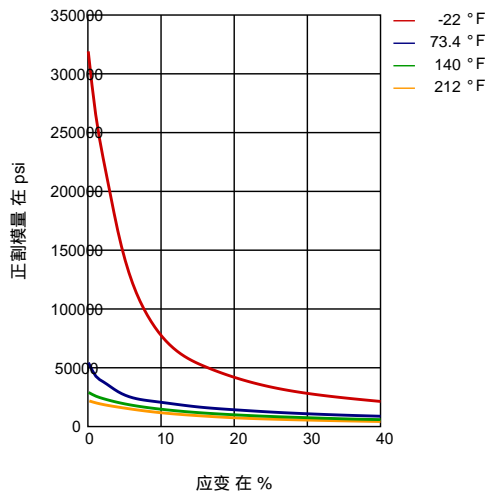
动态剪切模量 - 温度



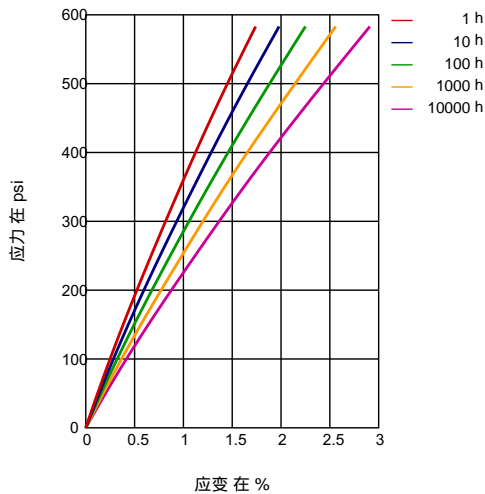
应力 - 应变.



正割模量 - 应变.



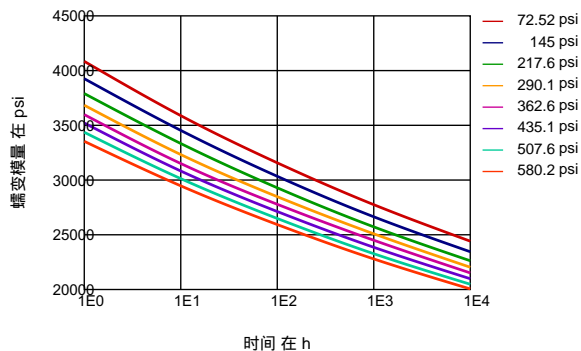
应力 - 应变(等时的) 73°F



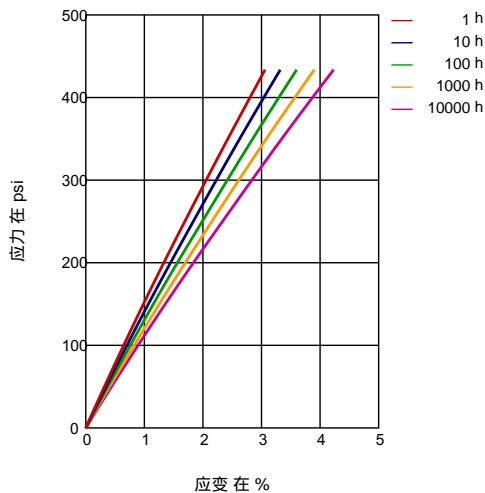
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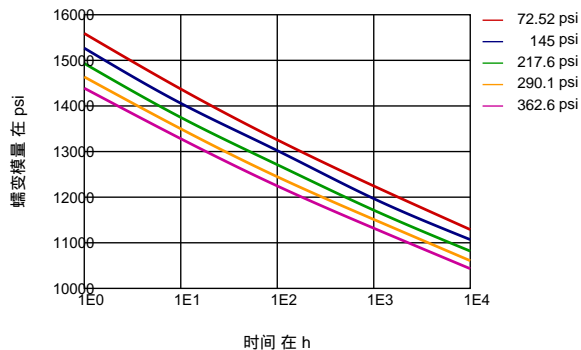
蠕变模量 - 时间. 73°F



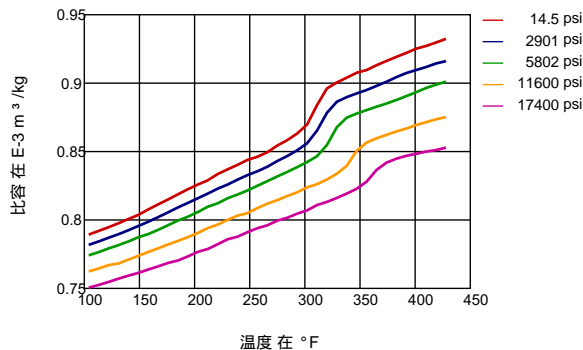
应力 - 应变(等时的) 212°F



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°C/250°C/280°C.

—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°C。

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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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