

# KYNAR FLEX®

## 3030-15

Kynar Flex® 3030-15树脂 是由偏二氟乙烯和六氟丙烯合成的共聚物，专为柔性增压电缆和管路设计。  
其主要特性有：

- 柔韧性非常高
- 熔点高
- 优异的低温耐冲击性
- 增压级

| 性能                               | 价值            | 单位                    | 测试标准          |
|----------------------------------|---------------|-----------------------|---------------|
| <b>流变性能</b>                      |               |                       |               |
| 熔融指数                             | 8 - 25        | g/10m<br>in           | ASTM D1238    |
| 温度                               | 230           | °C                    | -             |
| 负载                               | 3.8           | kg                    | -             |
| 熔体粘度, 230°C, 100 s <sup>-1</sup> | 7 - 13        | kPoise                | ASTM D3835    |
| <b>机械性能</b>                      |               |                       |               |
| 拉伸模量                             | 290           | MPa                   | ISO 527-1/-2  |
|                                  | 42100         | psi                   |               |
| 拉伸模量, 73 °F                      | 207 - 345     | MPa                   | ASTM D638     |
|                                  | 30000 - 50000 | psi                   |               |
| 屈服应力                             | 12            | MPa                   | ISO 527-1/-2  |
|                                  | 1740          | psi                   |               |
| 屈服应力, 73 °F                      | 12.4 - 16.5   | MPa                   | ASTM D638     |
|                                  | 1800 - 2400   | psi                   |               |
| 屈服伸长率                            | 30            | %                     | ISO 527-1/-2  |
| 屈服伸长率, 73 °F                     | 25 - 40       | %                     | ASTM D638     |
| 名义断裂伸长率                          | >50           | %                     | ISO 527-1/-2  |
| 断裂拉伸强度, 73 °F                    | 19.3 - 24.8   | MPa                   | ASTM D638     |
|                                  | 2800 - 3600   | psi                   |               |
| 断裂伸长率, 73 °F                     | ≥ 500         | %                     | ASTM D638     |
| TABER耐摩耗性, CS 17 1000g:pad       | 28 - 33       | mg/10<br>00<br>cycles | ASTM-G195-13A |
| 肖氏硬度, D, 73 °F                   | 45 - 55       | -                     | ASTM D2240    |
| 弯曲模量, 73 °F                      | 241 - 379     | MPa                   | ASTM D790     |
|                                  | 35000 - 55000 | psi                   |               |
| 简支梁缺口冲击强度, +23°C                 | 无断裂           | kJ/m <sup>2</sup>     | ISO 179/1eA   |

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|                   |                           |                              |                 |
|-------------------|---------------------------|------------------------------|-----------------|
| 梁缺口冲击强度, 73 °F    | 无断裂                       | kJ/m                         | ASTM D256       |
| 热性能               |                           |                              |                 |
| 熔融温度, 10°C/min    | 164                       | °C                           | ISO 11357-1/-3  |
| 熔点                | 160 - 168                 | °C                           | ASTM D3418      |
| 玻璃化转变温度, 10°C/min | -40                       | °C                           | ISO 11357-1/-2  |
| 玻璃化转变温度 (Tg)      | -40                       | °C                           | ASTM D7028      |
| 热释放速率, 73 °F      | 15.3 - 19.4<br>8.5 - 10.8 | 10E-5/<br>°C<br>10E-5/<br>°F | ASTM D696       |
| 阻燃等级, 厚度h         | V-0                       | class                        | IEC 60695-11-10 |
| 测试用试样的厚度          | 0.8<br>0.0315             | mm<br>in                     | -               |
| 氧指数               | 90                        | %                            | ISO 4589-1/-2   |
| 氧指数               | ≥ 75                      | %                            | ASTM D2863      |
| 电性能               |                           |                              |                 |
| 体积电阻率             | 2E12                      | Ohm*<br>m                    | IEC 62631-3-1   |
| 表面电阻率, 73 °F      | 7.6E11 - 7.9E11           | Ohm<br>per<br>square         | ASTM D257       |
| 电介质强度, 73°F       | 1 - 1.2                   | kV/mil                       | ASTM D149       |
| 其它性能              |                           |                              |                 |
| 吸水性               | ≤ 0.05                    | %                            | ASTM D570       |
| 比重, 73 °F         | 1.78 - 1.82               | -                            | ASTM D792       |

|                         |                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
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