



Technical Data Sheet 物性表

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| PRODUCT NAME 产品名称: | Automotive & Electronics Vent Membrane 汽车/电子类防水透气膜 |
| PRODUCT MODEL 产品型号: | XINXIA-G180WO |
| PRODUCT DESCRIPTION 产品描述: | e-PTFE Oleophobic and Hydrophobic breathable membrane 聚四氟乙烯防水透气膜 |
| APPLICATION FEILD 应用领域: | Automotive & Electronics 汽车/电子应用 |
| APPLICATION PRODUCTS 应用产品: | / |

Membrane Properties 膜特性:

| PHYSICAL PROPERTIES 物理特性 | REFERED TEST STANDARD 参考测试标准 | UNIT 单位 | TYPICAL DATA 典型值 |
|--|---|-------------------------------|----------------------|
| Membrane Color 膜颜色 | / | / | Dark Gray 深灰 |
| Membrane Construction 膜层结构 | / | / | PTFE 聚四氟乙烯 |
| Membrane Surface Property 膜表面特性 | / | / | Hydrophobic 疏水/疏水 |
| Thickness 厚度 | ISO 534 | mm | 0.19±0.05 |
| Interlayer Bonding Strength (90 degree peel) 层间结合强度(90度剥离) | Internal Method 内控方法 | N/inch | NA |
| Min Air Flow Rate 最小透气量 | ASTM D737 (测试面积: 1 cm ²) | ml/min/cm ² @ 7Kpa | >250 |
| Typical Air Flow Rate 典型透气量 | ASTM D737 (测试面积: 1 cm ²) | ml/min/cm ² @ 7Kpa | 500 |
| Water Entry Pressure 耐静水压 | ASTM D751 (测试面积: 1 cm ²) | KPa for 30 sec | >40 |
| IP Rating 防护等级 | IEC 60529 | / | IP68 |
| Water Vapor Transmission Rate 透湿率(蒸发法) | GB/T 12704.2 (38°C/50%RH、倒杯法) | g/m ² /24h | >5000 |
| Oleophobic Grade 疏油等级 | AATCC 118 | Grade | ≥7 |



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|-------------------------------|--------------------------------|----|--|
| Operation Temperature 服务温度 | IEC 60068-2-14 | °C | -40°C ~ 260°C |
| ROHS 有害物质 | IEC 62321 | / | Meet ROHS Requirements (符合 ROHS 要求) |
| PFOA & PFOS 全氟辛酸/全氟辛烷磺酸 | US EPA 3550C & US EPA 8321B | / | PFOA & PFOS Free 不含全氟辛酸/全氟辛烷磺酸 |

Application 应用:

This series of membranes could be used in Automotive Lamps, Automotive Sensitive Electronics, Outdoor Lighting, Outdoor Electronic Devices, Household Electrical and Electronics etc. 此系列防水透气膜可应用于车灯、汽车敏感电子元件、户外照明、户外电子设备，以及家用电器电子等产品。

The membrane can balance inside/outside pressure differentials of sealed enclosures while blocking contaminants, which could increase components' reliability and extend their service life. 该膜可以平衡密封外壳的内外压差，同时阻隔污染物，从而提高产品的可靠性并延长其使用寿命。

Shelf Life 保质期:

Shelf life is five years from the date of receipt for this product as long as this product is stored in its original packaging in an environment below 80° F (27° C) and 60% RH. 本产品以原包装保存在低于 80°F(27°C)和 60%相对湿度的条件下，自收货之日起，保质期为 5 年。

Note 注意:

All data above are typical data for the membrane raw material, for reference only, and should not be used as special data for outgoing quality control. 以上数据均为防水透气膜典型数据，仅供参考，不作为出厂质量控制的具体数据。

All technical information and advice given here is based on XINXIA's previous experiences and test results. XINXIA gives this information to the best of its knowledge, but assumes no legal responsibility. Customers are asked to check the suitability and usability in the specific application, since the performance of the product can only be judged when all necessary operating data are available. 所有技术信息和建议都是基于新夏公司以前的经验和测试结果。新夏公司尽其所知提供此信息，不承担任何法律责任。客户应验证其具体应用的适用性和可用性，只有当所有必要的运行数据都可用时，才能判断产品的性能。