



|                                                                                                                                     |                                                                               |        |        |                      |                                |            |     |     |     |   |     |      |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------|--------|----------------------|--------------------------------|------------|-----|-----|-----|---|-----|------|--|--|
| 特点                                                                                                                                  | 采用进口超高纯度电工级聚酯树脂设计,经平膜法双向拉伸而成。具有厚薄均匀性好,耐压强度高,机械强度高的特点。卷制的电容器介电损耗小,绝缘电阻高        |        |        |                      |                                |            |     |     |     |   |     |      |  |  |
| 应用范围                                                                                                                                | M-PET: 主要用于金属化膜电容器                                                            |        |        |                      |                                |            |     |     |     |   |     |      |  |  |
| 技术特性<br>(典型值)                                                                                                                       |                                                                               |        | 单位     | 典型数值                 | 测试条件                           |            |     |     |     |   |     |      |  |  |
|                                                                                                                                     | 拉伸强度                                                                          | MD     | Mpa    | 326                  | 拉伸速率:100%/min @23℃, 50% r.h. . |            |     |     |     |   |     |      |  |  |
|                                                                                                                                     |                                                                               | TD     | Mpa    | 260                  |                                |            |     |     |     |   |     |      |  |  |
|                                                                                                                                     | 断裂伸长率                                                                         | MD     | %      | 84                   |                                |            |     |     |     |   |     |      |  |  |
|                                                                                                                                     |                                                                               | TD     | %      | 113                  |                                |            |     |     |     |   |     |      |  |  |
|                                                                                                                                     | 热收缩率                                                                          | MD     | %      | 1.8                  | 15 min @ 120℃                  |            |     |     |     |   |     |      |  |  |
|                                                                                                                                     |                                                                               | TD     | %      | 0.9                  |                                |            |     |     |     |   |     |      |  |  |
|                                                                                                                                     | 表面粗糙度                                                                         |        |        | μm                   | 0.098                          | 23℃        |     |     |     |   |     |      |  |  |
|                                                                                                                                     | 击穿电压 (BDV) X                                                                  |        |        | V/μm                 | 1.4                            | at 23℃ air |     |     |     |   |     |      |  |  |
|                                                                                                                                     | 体积电阻率                                                                         |        |        | Ω·m                  | 2.5*10 <sup>15</sup>           | 23℃        |     |     |     |   |     |      |  |  |
| 介质损耗因素<br>(损耗角正切)                                                                                                                   |                                                                               |        |        | 2.8*10 <sup>-4</sup> | 50Hz or 1kHz @23℃              |            |     |     |     |   |     |      |  |  |
| Reference Specification: IEC60674-2<br>Values above are reference only , not for contracting.<br>Note:Uncorona-treated fot Type SPP |                                                                               |        |        |                      |                                |            |     |     |     |   |     |      |  |  |
| 薄膜厚度表示方法                                                                                                                            | 通常薄膜厚度用薄膜厚度中心值(整数,如5、6、7、8...)加尾数(小数点后一位)或其代码表示。本公司薄膜厚度值均为机械法测量的厚度(MMV)(十层法)。 |        |        |                      |                                |            |     |     |     |   |     |      |  |  |
|                                                                                                                                     | Number                                                                        | Letter | Number | Letter               |                                |            |     |     |     |   |     |      |  |  |
|                                                                                                                                     | -0.4                                                                          | B      | 0.1    | V                    |                                |            |     |     |     |   |     |      |  |  |
|                                                                                                                                     | -0.3                                                                          | C      | 0.2    | W                    |                                |            |     |     |     |   |     |      |  |  |
|                                                                                                                                     | -0.2                                                                          | D      | 0.3    | X                    |                                |            |     |     |     |   |     |      |  |  |
|                                                                                                                                     | -0.1                                                                          | E      | 0.4    | Y                    |                                |            |     |     |     |   |     |      |  |  |
|                                                                                                                                     | 0                                                                             | L      | 0.5    | Z                    |                                |            |     |     |     |   |     |      |  |  |
| 8D表示MMV厚度为7.8 μm; 12X表示MMV厚度为12.3 μm.                                                                                               |                                                                               |        |        |                      |                                |            |     |     |     |   |     |      |  |  |
| 备注:推荐薄膜厚度5E 6E 7E 8D 9D 10D等。                                                                                                       |                                                                               |        |        |                      |                                |            |     |     |     |   |     |      |  |  |
| 8D表示MMV厚度为7.8 μm; 12X表示MMV厚度为12.3 μm.<br>备注:推荐薄膜厚度5E 6E 7E 8D 9D                                                                    | 厚度                                                                            | MMV    | μm     | 2.8                  | 3.7                            | 4.7        | 5.6 | 6.6 | 7.5 | 9 | 9.5 | 11.5 |  |  |
|                                                                                                                                     |                                                                               | MMV    | μm     | 3                    | 3.9                            | 4.9        | 5.9 | 6.9 | 7.8 | 9 | 9.8 | 11.8 |  |  |
|                                                                                                                                     | 厚度偏差                                                                          | 平均值    | %      | ±3                   |                                |            |     |     |     |   |     |      |  |  |
|                                                                                                                                     |                                                                               | 个别值    | %      | ±9                   |                                |            |     | ±7  |     |   | ±5  |      |  |  |
|                                                                                                                                     | 成品膜卷宽度                                                                        |        |        | mm                   | 500, 620                       |            |     |     |     |   |     |      |  |  |
|                                                                                                                                     | 内径                                                                            |        |        | mm                   | 76.2, 152.4                    |            |     |     |     |   |     |      |  |  |
|                                                                                                                                     | 净重                                                                            |        |        | kg                   | 62, 80                         |            |     |     |     |   |     |      |  |  |