



## 汽车膜性能规格

| 产品名称                            | 总太阳能% |     |     | 可见光% |     |      | U-值  |      | UV 反射 | 遮蔽系数 | 太阳能热增益系数 | 总太阳能阻隔 |
|---------------------------------|-------|-----|-----|------|-----|------|------|------|-------|------|----------|--------|
|                                 | 透光率   | 反射率 | 吸收率 | 透光率  | 反射率 | 减少眩光 | 位数   | 设计   |       |      |          |        |
| 常规产品- 无最低起订量(MOQ)               |       |     |     |      |     |      |      |      |       |      |          |        |
| Advanced Ceramic - 高性能          |       |     |     |      |     |      |      |      |       |      |          |        |
| Ceramic 30 PS SR                | 26%   | 20% | 9%  | 35%  | 17% | 61%  | 1.05 | 1.05 | 99%   | 0.49 | 0.43     | 58%    |
| Ceramic 40 PS SR                | 36%   | 16% | 49% | 46%  | 14% | 49%  | 1.06 | 1.06 | 99%   | 0.59 | 0.51     | 49%    |
| Ceramic 50 PS SR                | 44%   | 12% | 44% | 54%  | 12% | 40%  | 1.07 | 1.07 | 99%   | 0.66 | 0.58     | 43%    |
| Ceramic 60 PS SR                | 51%   | 11% | 38% | 60%  | 11% | 33%  | 1.07 | 1.07 | 99%   | 0.72 | 0.63     | 37%    |
| Onyx Series - 高性能               |       |     |     |      |     |      |      |      |       |      |          |        |
| Onyx 5 PS SR                    | 27%   | 7%  | 66% | 5%   | 5%  | 94%  | 1.05 | 1.09 | 99%   | 0.51 | 0.44     | 57%    |
| Onyx 20 PS SR                   | 27%   | 8%  | 65% | 15%  | 5%  | 83%  | 1.06 | 1.10 | 99%   | 0.52 | 0.45     | 55%    |
| Onyx 35 PS SR                   | 36%   | 9%  | 55% | 32%  | 7%  | 64%  | 1.09 | 1.13 | 99%   | 0.59 | 0.51     | 49%    |
| Onyx 55 PS SR                   | 43%   | 11% | 46% | 44%  | 9%  | 50%  | 1.09 | 1.13 | 99%   | 0.64 | 0.56     | 44%    |
| Black Pearl HP Series - 高性能     |       |     |     |      |     |      |      |      |       |      |          |        |
| Black Pearl HP 4 PS SR          | 28%   | 9%  | 63% | 4%   | 4%  | 96%  | 1.01 | 1.03 | 99%   | 0.54 | 0.47     | 53%    |
| Black Pearl HP 15 PS SR         | 32%   | 8%  | 60% | 15%  | 5%  | 84%  | 1.02 | 1.03 | 99%   | 0.58 | 0.50     | 50%    |
| Black Pearl HP 22 PS SR         | 35%   | 9%  | 56% | 23%  | 6%  | 75%  | 1.01 | 1.03 | 99%   | 0.60 | 0.52     | 48%    |
| Black Pearl HP 32 PS SR         | 42%   | 8%  | 50% | 33%  | 6%  | 63%  | 1.03 | 1.04 | 99%   | 0.66 | 0.57     | 43%    |
| Black Pearl HP 38 PS SR         | 45%   | 9%  | 46% | 40%  | 7%  | 55%  | 1.03 | 1.04 | 99%   | 0.68 | 0.59     | 41%    |
| Charcool Series - 优质, 无反射       |       |     |     |      |     |      |      |      |       |      |          |        |
| Charcool 5 PS SR                | 41%   | 7%  | 52% | 7%   | 5%  | 92%  | 1.06 | 1.12 | 99%   | 0.64 | 0.56     | 45%    |
| Charcool 20 PS SR               | 45%   | 6%  | 49% | 17%  | 5%  | 81%  | 1.10 | 1.14 | 99%   | 0.67 | 0.58     | 42%    |
| Charcool 35 PS SR               | 48%   | 6%  | 46% | 35%  | 6%  | 60%  | 1.10 | 1.14 | 99%   | 0.69 | 0.60     | 40%    |
| Charcool 42 PS SR               | 66%   | 7%  | 27% | 41%  | 6%  | 54%  | 1.04 | 1.05 | 99%   | 0.85 | 0.73     | 27%    |
| Charcool 55 PS SR               | 63%   | 7%  | 30% | 54%  | 7%  | 39%  | 1.11 | 1.14 | 99%   | 0.82 | 0.71     | 29%    |
| Black Pearl NR Series - 优质, 无反射 |       |     |     |      |     |      |      |      |       |      |          |        |
| Black Pearl NR 5 PS SR          | 46%   | 6%  | 48% | 4%   | 4%  | 95%  | 1.04 | 1.05 | 99%   | 0.70 | 0.61     | 39%    |
| Black Pearl NR 20 PS SR         | 50%   | 6%  | 44% | 19%  | 5%  | 79%  | 1.04 | 1.05 | 99%   | 0.73 | 0.64     | 36%    |
| Black Pearl NR 35 PS SR         | 60%   | 6%  | 34% | 37%  | 5%  | 59%  | 1.04 | 1.05 | 99%   | 0.81 | 0.70     | 30%    |
| Black Pearl NR 55 PS SR         | 67%   | 6%  | 26% | 57%  | 6%  | 37%  | 1.04 | 1.05 | 99%   | 0.86 | 0.75     | 25%    |
| Charcoal Series - 优质, 无反射       |       |     |     |      |     |      |      |      |       |      |          |        |
| Charcoal 5 PS SR                | 41%   | 7%  | 52% | 7%   | 5%  | 92%  | 1.06 | 1.12 | 99%   | 0.64 | 0.56     | 45%    |
| Charcoal 20 PS SR               | 45%   | 6%  | 49% | 17%  | 5%  | 81%  | 1.10 | 1.14 | 99%   | 0.67 | 0.58     | 42%    |
| Charcoal 35 PS SR               | 48%   | 6%  | 46% | 35%  | 6%  | 60%  | 1.10 | 1.14 | 99%   | 0.69 | 0.60     | 40%    |
| Shadow Series - 优质, 无反射         |       |     |     |      |     |      |      |      |       |      |          |        |
| Shadow 5 PS SR                  | 49%   | 6%  | 45% | 6%   | 5%  | 93%  | 1.04 | 1.05 | 99%   | 0.73 | 0.64     | 36%    |
| Shadow 20 PS SR                 | 57%   | 6%  | 37% | 23%  | 5%  | 75%  | 1.04 | 1.05 | 99%   | 0.78 | 0.68     | 32%    |
| Shadow 32 PS SR                 | 59%   | 7%  | 34% | 31%  | 5%  | 66%  | 1.03 | 1.04 | 99%   | 0.80 | 0.70     | 30%    |
| Shadow 38 PS SR                 | 64%   | 6%  | 30% | 42%  | 5%  | 53%  | 1.04 | 1.05 | 99%   | 0.84 | 0.73     | 27%    |
| Shadow 50 PS SR                 | 66%   | 7%  | 27% | 50%  | 6%  | 45%  | 1.03 | 1.04 | 99%   | 0.85 | 0.74     | 26%    |
| GP Max Series - 高性能, 价值         |       |     |     |      |     |      |      |      |       |      |          |        |
| GP MAX 5 PS SR                  | 18%   | 22% | 60% | 5%   | 8%  | 95%  | 0.98 | 1.00 | 99%   | 0.41 | 0.36     | 64%    |
| GP MAX 20 PS SR                 | 40%   | 9%  | 51% | 20%  | 5%  | 77%  | 1.02 | 1.03 | 99%   | 0.64 | 0.56     | 44%    |
| GP MAX 35 PS SR                 | 47%   | 10% | 44% | 40%  | 8%  | 55%  | 1.01 | 1.03 | 99%   | 0.69 | 0.60     | 40%    |
| GP MAX 50 PS SR                 | 68%   | 7%  | 25% | 47%  | 6%  | 47%  | 1.08 | 1.13 | 99%   | 0.87 | 0.76     | 24%    |

| 非標产品 - 最低起订量80卷                    |       |     |     |      |     |      |      |      |       |      |          |        |
|------------------------------------|-------|-----|-----|------|-----|------|------|------|-------|------|----------|--------|
| 产品名称                               | 总太阳能% |     |     | 可见光% |     |      | U-值  |      | UV 反射 | 遮蔽系数 | 太阳能热增益系数 | 总太阳能阻隔 |
|                                    | 透光率   | 反射率 | 吸收率 | 透光率  | 反射率 | 减少眩光 | 位数   | 设计   |       |      |          |        |
| Endurance Series - 优质, 高性能         |       |     |     |      |     |      |      |      |       |      |          |        |
| Endurance 14 PS SR                 | 11%   | 15% | 74% | 11%  | 19% | 88%  | 1.05 | 1.10 | 99%   | 0.37 | 0.32     | 68%    |
| Endurance 20 PS SR                 | 19%   | 16% | 65% | 20%  | 19% | 77%  | 1.07 | 1.12 | 99%   | 0.44 | 0.38     | 62%    |
| Endurance 32 PS SR                 | 26%   | 13% | 61% | 29%  | 14% | 68%  | 1.07 | 1.12 | 99%   | 0.51 | 0.44     | 56%    |
| Endurance 38 PS SR                 | 36%   | 11% | 53% | 39%  | 14% | 57%  | 1.07 | 1.12 | 99%   | 0.60 | 0.52     | 48%    |
| Endurance 50 PS SR                 | 46%   | 11% | 43% | 49%  | 13% | 45%  | 1.07 | 1.12 | 99%   | 0.68 | 0.59     | 41%    |
| Performx Slate Series - 优质, 高性能    |       |     |     |      |     |      |      |      |       |      |          |        |
| PerformX Slate 5 PS SR             | 18%   | 22% | 61% | 5%   | 7%  | 94%  | 0.98 | 1.00 | 99%   | 0.41 | 0.35     | 64%    |
| PerformX Slate 15 PS SR            | 31%   | 12% | 57% | 15%  | 7%  | 83%  | 1.01 | 1.03 | 99%   | 0.55 | 0.48     | 52%    |
| PerformX Slate 20 PS SR            | 34%   | 12% | 54% | 22%  | 6%  | 76%  | 0.98 | 1.00 | 99%   | 0.57 | 0.49     | 50%    |
| PerformX Slate 35 PS SR            | 47%   | 9%  | 44% | 41%  | 7%  | 55%  | 1.02 | 1.03 | 99%   | 0.70 | 0.60     | 39%    |
| PerformX Slate 50 PS SR            | 55%   | 8%  | 37% | 55%  | 8%  | 38%  | 1.04 | 1.05 | 99%   | 0.76 | 0.66     | 34%    |
| PerformX Charcoal Series - 优质, 高性能 |       |     |     |      |     |      |      |      |       |      |          |        |
| PerformX Charcoal 5 PS SR          | 18%   | 21% | 61% | 5%   | 7%  | 95%  | 0.98 | 1.00 | 99%   | 0.42 | 0.36     | 64%    |
| PerformX Charcoal 20 PS SR         | 33%   | 13% | 55% | 21%  | 6%  | 77%  | 0.99 | 1.01 | 99%   | 0.56 | 0.48     | 51%    |
| PerformX Charcoal 30 PS SR         | 44%   | 9%  | 47% | 36%  | 7%  | 61%  | 1.03 | 1.04 | 99%   | 0.67 | 0.58     | 42%    |
| PerformX Charcoal 50 PS SR         | 53%   | 9%  | 38% | 54%  | 9%  | 40%  | 1.04 | 1.05 | 99%   | 0.74 | 0.64     | 36%    |
| High VLT                           |       |     |     |      |     |      |      |      |       |      |          |        |
| Nova 70 PS SR                      | 50%   | 31% | 19% | 69%  | 22% | 23%  | 0.96 | 0.96 | 99%   | 0.63 | 0.55     | 45%    |
| Purelite 60                        | 43%   | 9%  | 48% | 60%  | 10% | 33%  | 1.04 | 1.04 | 99%   | 0.66 | 0.57     | 43%    |
| Ceramic 60 PS SR                   | 51%   | 11% | 38% | 60%  | 11% | 33%  | 1.07 | 1.07 | 99%   | 0.72 | 0.63     | 37%    |
| Silver 70 PS SR                    | 66%   | 8%  | 26% | 73%  | 9%  | 19%  | 1.04 | 1.05 | 99%   | 0.84 | 0.73     | 27%    |
| Silver 60 PS SR                    | 47%   | 18% | 35% | 58%  | 18% | 35%  | 0.99 | 0.99 | 99%   | 0.66 | 0.57     | 43%    |
| Signature 60 PS SR                 | 53%   | 9%  | 38% | 61%  | 10% | 32%  | 1.02 | 1.03 | 99%   | 0.74 | 0.65     | 34%    |
| HP Carbon Series - 高性能, 价值         |       |     |     |      |     |      |      |      |       |      |          |        |
| HP Carbon 5 PS SR                  | 18%   | 21% | 60% | 5%   | 7%  | 94%  | 0.98 | 1.00 | 99%   | 0.42 | 0.35     | 64%    |
| HP Carbon 20 PS SR                 | 39%   | 9%  | 52% | 22%  | 5%  | 76%  | 1.03 | 1.04 | 99%   | 0.63 | 0.54     | 45%    |
| HP Carbon 35 PS SR                 | 48%   | 9%  | 43% | 41%  | 7%  | 54%  | 1.03 | 1.04 | 99%   | 0.70 | 0.60     | 39%    |
| HP Carbon 50 PS SR                 | 52%   | 10% | 38% | 55%  | 10% | 39%  | 1.03 | 1.04 | 99%   | 0.73 | 0.63     | 37%    |
| 安全膜 - 无反射                          |       |     |     |      |     |      |      |      |       |      |          |        |
| NRLW 400 GP 20 PS SR               | 41%   | 7%  | 52% | 21%  | 6%  | 77%  | 1.04 | 1.05 | 99%   | 0.66 | 0.57     | 43%    |
| NRLW 400 GP 35 PS SR               | 59%   | 7%  | 34% | 34%  | 6%  | 62%  | 1.06 | 1.06 | 99%   | 0.80 | 0.69     | 30%    |
| NRLW 400 CH 20 PS SR               | 39%   | 10% | 51% | 21%  | 9%  | 76%  | 1.03 | 1.04 | 99%   | 0.63 | 0.54     | 45%    |
| NRLW 400 CH 35 PS SR               | 60%   | 8%  | 32% | 35%  | 6%  | 62%  | 1.04 | 1.05 | 99%   | 0.80 | 0.69     | 30%    |
| NRLW 400 CH 50 PS SR               | 66%   | 8%  | 27% | 49%  | 7%  | 46%  | 1.04 | 1.05 | 99%   | 0.85 | 0.74     | 26%    |
| NRLW 800 CH 20 PS SR               | 40%   | 9%  | 51% | 22%  | 8%  | 76%  | 1.03 | 1.04 | 99%   | 0.64 | 0.55     | 44%    |
| NRLW 800 CH 35 PS SR               | 60%   | 7%  | 33% | 35%  | 6%  | 61%  | 1.04 | 1.05 | 99%   | 0.80 | 0.69     | 30%    |
| NRLW 800 CH 50 PS SR               | 65%   | 8%  | 28% | 49%  | 7%  | 46%  | 1.04 | 1.05 | 99%   | 0.84 | 0.73     | 27%    |

Madico 全部的窗膜阻隔超过99%的UV 光.

\* IR 阻隔的红外线范围内测试的是 780 至 2500 nm.

报告值是典型特性 不应作为规范使用. 其中只有该用户知道的具体条件和该产品的使用。 用户的责任是确定该产品是否适合用于预定用途. 如果使用的具体条件是极其依赖于任何产品的属性, 或如果你需要更多信息, 请联络Madico或你当地的Madico零售商.

## 太阳能光学性能词汇表

**总太阳能:** 所有热量在到达我们地球表面的太阳光谱. 这个包括 UVA 和 UVB, 可见光, 和红外线. 热量可达约2500 nm.

**透射:** 总太阳能热量穿透玻璃, 进入建筑物.

**反射:** 总太阳能热量被反射离开玻璃和引回到外面. 这个热量是不会进入到建筑物的.

**吸收:** 总太阳能被吸收到玻璃的热量. 这会加热玻璃, 使它的触感更热, 并将辐射少量的热量转回到房间. 但大多被吸收的热量都会流出房间.

**可见光:** 可见光是太阳光谱的一部分, 我们可以看到的. 光谱大约为 380nm 到 780 nm 的, 包含了光谱的所有颜色.

**透射:** 可见光穿过玻璃进入建筑物的热量. 这代表着膜的浅色度和深色度.

**外部反射:** 可见光被反射离开窗户外部表面的热量. 这是站在建筑物的外部时看的到的. 较高的反射率值意味着该窗户看起来像是由外到内的一面镜子.

**内部反射:** 可见光被反射离开窗户内部表面的热量. 这是站在建筑物的内部时看的到的. 较高的反射率值意味着该窗户看起来像是由内到外的一面镜子.

**减少眩光:** 减少透明没有贴膜的玻璃相比的可见光透射.

**U-值:** 由于传热外部和内部的温度差异. 代表了热量通过1平方英尺的玻璃1小时内对外部和内部之间的每一度的温差度. 值越小意味着更少的热量穿过. 这利益通常是建筑物在寒冷的气候中能保持的热量.

**位数:** 指部分的 U 值图表适用于“暖冬”的条件.

**设计:** 指部分的 U 值图表适用于“严冬”的条件.

**紫外线光阻隔:** UV 能量的阻隔膜, 通过反射或吸收它. 这种量不会进入汽车内.

**遮阳系数:** 热量通过一个贴了膜的窗户再经过没有贴膜的玻璃. 数值越低意味着更好的散热.

**太阳能热增益系数:** 类似于遮阳系数, 但这个值也考虑到能量能重新辐射至玻璃回到房间由此增加吸收回温. 再次, 数值越小越好散热.

**总太阳能阻隔:** 太阳能总热量保持在了该建筑物上. 虽然不准确, 但这通常就是所说的排热.

**红外线阻隔:** 红外线(IR) 能量被膜阻隔的量, 通过反射或着被吸收. 这个值对于太阳光谱的整个红外区域, 大致为780 nm 到 2500nm.