


# Fencing Technical Sheet

| Model        | Photo                                                                             | Dimension                     |
|--------------|-----------------------------------------------------------------------------------|-------------------------------|
| <b>UH122</b> |  | 175.5×21.5 mm<br>(6.9×0.8 in) |

| NO. | Property                             | Test Method      | Test results                                                          | Remark |
|-----|--------------------------------------|------------------|-----------------------------------------------------------------------|--------|
| 1   | Boiling test                         | EN15534          | Water absorption in weight: 1.74%                                     |        |
| 2   | Coefficient Linear Thermal Expansion | ASTM D696        | $38.9 \times 10^{-6}$ mm/mm °C                                        |        |
|     |                                      | EN15534          | $32.2 \times 10^{-6}$ K <sup>-1</sup>                                 |        |
| 3   | Degree of chalking                   | EN15534          | Rating 0, no chalking                                                 |        |
| 4   | Falling mass impact resistance       | EN15534          | Max Crack length(mm): No crack.<br>Max Residual Indentation(mm): 0.14 |        |
| 5   | Formaldehyde Content                 | EN717-1          | Non Detected                                                          |        |
|     |                                      | ASTM D6007-14    | Non Detected                                                          |        |
| 6   | Heavy Metal Content                  | EPA3051          | Sb: ND, As: ND, Se: ND, Sn: ND                                        |        |
| 7   | Heat reversion                       | EN15534<br>EN479 | 0.11% (Test temperature: 100°C)                                       |        |
| 8   | Lead Content Test                    | EUNo.628/2015    | Non Detected                                                          |        |
| 9   | Mould resistance                     | ASTM G21         | Rating 0                                                              |        |
| 10  | Moisture Content                     | EN15534<br>EN322 | 0.52%                                                                 |        |

| NO. | Property                                          | Test Method                              | Test results                                                                                                                                                                           | Remark |
|-----|---------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 11  | Neutral salt spray test                           | ASTM B117-2011                           | After 200 hours tests, there was no visible change appeared on the surface:<br>Front surface: $\Delta E^*=1.22$ , Grey Scale: 4-5<br>Back surface: $\Delta E^*=1.06$ , Grey Scale: 4-5 |        |
|     |                                                   | EN15534<br>ISO9227                       | $\Delta E^*=1.42$ ,<br>Grey Scale=4 (Exposure 96h)                                                                                                                                     |        |
| 12  | Pb, Cd, Hg, Cr6+                                  | RoHs-IEC62321                            | Pb: ND, Cd: ND, Hg: ND, Cr <sup>6+</sup> : ND                                                                                                                                          |        |
| 13  | Resistance to artificial weathering               | EN15534<br>ISO4892-2                     | After 2000h exposure $\Delta E^*=1.09$ ,<br>Grey Scale=4-5                                                                                                                             |        |
| 14  | Swelling and water absorption (24hours immersion) | EN15534                                  | ①Swelling: 0.21% in thickness, 0.01% in width, 0.01% in length.<br>②Water absorption: 0.51%                                                                                            |        |
| 15  | Swelling and water absorption (28days immersion)  | EN15534                                  | ①Swelling: 0.84% in thickness, 0.03% in width, 0.02% in length.<br>②Water absorption: 1.69%                                                                                            |        |
| 16  | SRI Testing                                       | ASTM C1549,<br>ASTM C1371,<br>ASTM E1980 | 19                                                                                                                                                                                     |        |
| 17  | UV Weathering test                                | ASTM G154                                | After 3000 hours test,<br>Grey Scale 4-5, $\Delta E^*=1.42$                                                                                                                            |        |
| 18  | VOC&TVOC                                          | ASTM D5116-11                            | Non Detected                                                                                                                                                                           |        |