



## MATMIL

| General features                | Units            |
|---------------------------------|------------------|
| <b>Raw material</b>             | 100% <b>HDPE</b> |
| <b>Size</b>                     | 2400x1200x12 mm. |
| <b>Thickness</b>                | 12 mm.           |
| <b>Weight per m<sup>2</sup></b> | 12,5 Kg.         |
| <b>Weight per panel</b>         | 36,0 Kg.         |

|                                     |                        | HDPE            |
|-------------------------------------|------------------------|-----------------|
| <b>Density</b>                      | Kg./m <sup>3</sup>     | 940 - 965       |
| <b>Contraction</b>                  | %                      | 2 - 4           |
| <b>Liquid absorption</b>            | %                      | 0.01            |
| <b>Thermal expansion</b>            | e-6/K                  | 110 - 130       |
| <b>Thermal conducibility</b>        | W/m.K                  | 0.46 – 0.52     |
| <b>Specific heat capacity</b>       | J/Kg.K                 | 1800 - 2700     |
| <b>Fusion temperature</b>           | °C                     | 108 - 134       |
| <b>Glass transition temperature</b> | °C                     | -110 - - 110    |
| <b>Operating temperature</b>        | °C                     | -30 - +85       |
| <b>Resistivity</b>                  | Ohm.mm <sup>2</sup> /m | 5e+17 – 1e+21   |
| <b>Potencial broken</b>             | kV/mm                  | 17.7 – 19.7     |
| <b>Dielectric loss factor</b>       |                        | 0.0005 – 0.0008 |
| <b>Friction coefficient</b>         |                        | 0.25 – 0.30     |
| <b>Refractive index</b>             |                        | 1.52 – 1.53     |

| Certifications                  | Units        | Reference standard  |
|---------------------------------|--------------|---------------------|
| <b>Copmpression test</b>        | 11.000 kN/m2 | UNI EN ISO 604:2008 |
| <b>Three-point bending test</b> | 24.000 kN/m2 | UNI EN ISO 178:2011 |
| <b>Tensile test</b>             | 24.300 kN/m2 | ASTM D638 Rev 22    |

## Health and safety

|                                          |                                                                                                                      |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Danger for humans and environment</b> | <b>None</b>                                                                                                          |
| <b>Environment</b>                       | <b>Disposal carried out in compliance with municipal regulations</b>                                                 |
| <b>In water solubility</b>               | Insoluble                                                                                                            |
| <b>Regulations</b>                       | <b>Not classified as hazardous under transport legislation</b>                                                       |
| <b>TFusion temperature</b>               | Crystalline Melt Temperature 108 – 134 °C                                                                            |
| <b>Injection temperature</b>             | > 360 °C                                                                                                             |
| <b>Thermal decomposition</b>             | > 390 °C                                                                                                             |
| <b>stability and responsiveness</b>      | <b>No chance of degradation under normal circumstances.<br/>Degradation occurs only above thermal decomposition.</b> |
| <b>Toxicity</b>                          | <b>Not harmful to health under normal conditions.</b>                                                                |

**NOTE** TAIL panels are perfectly compatible with each other and interchangeable even alternately. They can be connected by means of the same connecting devices ensuring continuity over time between all models. It should be noted that the panels are not compatible with any other type of product currently on the market.

**The panel has a vehicular side and a pedestrian side. There are 6 handles along the edges of the panel to facilitate two-handed transport and handling. Each panel can be connected to the others thanks to the 12 holes on the sides of the panel by means of the following connection systems:**

- Steel Fast-fit connector
- Iron U-pin connector
- Urethane 2 ways connector
- Urethane 4 ways connector

Vehicular side



Pedestrian side

