

**ALTECH PC ECO 1000/521 IM UV**

(Last update: 26.04.2023)

**MOCOM**

|                      |                                                         |
|----------------------|---------------------------------------------------------|
| Base Polymer         | Polycarbonate                                           |
| Special Features     | UV stabilised,easy release (demoulding),impact modified |
| Market Segment       | electrical and electronic,Lighting,various              |
| Application Area     | exterior,fixtures / fittings,various                    |
| Typical Applications | garden equipment,housings,various                       |

|                               |                                                                                                                                                                               |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | 120 °C in a dry air (dessiccant) dryer<br>for 2-4 h<br>in an air circulating dryer 100-120 °C<br>for 4-12 h<br>dependant on moisture content<br>max. moisture content <0,02 % |
| Processing Injection Moulding | melt temperature 270-310 °C<br>mould temperature 80-110 °C                                                                                                                    |
| Storage                       | dry, protected from light                                                                                                                                                     |

| Properties                             | Value     | Dimension                 | Test Norm        |
|----------------------------------------|-----------|---------------------------|------------------|
| <b>Mechanical Properties</b>           |           |                           |                  |
| Tensile Modulus                        | 2200      | MPa                       | ISO 527          |
| Tensile Stress at Yield                | 62        | MPa                       | ISO 527          |
| Tensile Elongation at Yield            | 5.7       | %                         | ISO 527          |
| Tensile Elongation at Break            | 96        | %                         | ISO 527          |
| Impact Strength (Charpy, 23°C)         | no break  | kJ/m <sup>2</sup>         | ISO 179/1eU      |
| Notched Impact Strength (Charpy, 23°C) | 75        | kJ/m <sup>2</sup>         | ISO 179/1eA      |
| <b>Thermal Properties</b>              |           |                           |                  |
| Vicat B50                              | 141       | °C                        | ISO 306          |
| <b>Rheological Properties</b>          |           |                           |                  |
| Melt Index (MVR)                       | 8         | cm <sup>3</sup> /10min    | ISO 1133         |
| MVR temperature                        | 300       | °C                        | -                |
| MVR load                               | 1.2       | kg                        | -                |
| Shrinkage (24h)                        | 0.5 - 0.8 | %                         | ISO 294-4        |
| <b>Physical Properties</b>             |           |                           |                  |
| Density                                | 1230      | kg/m <sup>3</sup>         | ISO 1183         |
| <b>Ecological Properties</b>           |           |                           |                  |
| Global Warming Potential (GWP)         | 0.5       | kg CO <sub>2</sub> eq./kg | ISO 14040, 14044 |



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### Flammability

Glow Wire (GWFI, 850 °C, 2.0mm)

passed

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DIN EN 60695

### Additional Information

When using raw materials from a recycling process, as with prime materials, ferrous / non-ferrous residues can never be completely excluded. To minimize the risk of possible effects of such residues, MOCOM uses extensive detection and separation systems in the production process of its compounds. However, even these quality assurance systems cannot guarantee that the resulting product is 100% free of such residues. Therefore, we recommend our customers to additionally use their own detection and separation systems adapted to their respective process. For further questions and specific advice in connection with MOCOM products, please do not hesitate to contact our application engineering department. The ecological properties listed in this document were calculated for a production in one of our European plants. Data for production in the United States or China can be provided by sending a request to the following address. [technical@mocom.eu](mailto:technical@mocom.eu)

### Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.

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- risk class III applications according to EU directive 93/42/EEC
- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

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