

## Technical Data Sheet

 **Altech<sup>®</sup> ECO**
 **MOCOM**
**ALTECH PA66 ECO 1000/561**

|                      |                                                                             |
|----------------------|-----------------------------------------------------------------------------|
| Base Polymer         | Polyamide 66                                                                |
| Special Features     | impact modified, contains recycled material                                 |
| Market Segment       | Automotive, building and construction, various                              |
| Application Area     | fixtures / fittings, transport systems, various                             |
| Typical Applications | housing and automotive trim unpainted, fixing elements, cable ties, various |

|                       |                                                                                                                      |
|-----------------------|----------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions | 80 °C in a dry air (dessiccant) dryer<br>for 2-12 h<br>dependant on moisture content<br>0,15 % max. moisture content |
|-----------------------|----------------------------------------------------------------------------------------------------------------------|

|                               |                                                           |
|-------------------------------|-----------------------------------------------------------|
| Processing Injection Moulding | melt temperature 270-290 °C<br>mould temperature 40-80 °C |
|-------------------------------|-----------------------------------------------------------|

|         |                           |
|---------|---------------------------|
| Storage | dry, protected from light |
|---------|---------------------------|

| Properties                             | Value     | Dimension                 | Test Norm        |
|----------------------------------------|-----------|---------------------------|------------------|
| <b>Mechanical Properties</b>           |           |                           |                  |
| Flexural Modulus                       | 2500      | MPa                       | ISO 178          |
| Flexural Strength                      | 95        | MPa                       | ISO 178          |
| Tensile Modulus                        | 2600      | MPa                       | ISO 527          |
| Tensile Strength                       | 55        | MPa                       | ISO 527          |
| Tensile Elongation at Break            | 25        | %                         | ISO 527          |
| Impact Strength (Charpy, 23°C)         | no break  | kJ/m <sup>2</sup>         | ISO 179/1eU      |
| Notched Impact Strength (Charpy, 23°C) | 8         | kJ/m <sup>2</sup>         | ISO 179/1eA      |
| <b>Thermal Properties</b>              |           |                           |                  |
| HDT / A (1,8 MPa)                      | 60        | °C                        | ISO 75-1/-2      |
| <b>Rheological Properties</b>          |           |                           |                  |
| Shrinkage (lengthwise, 24h)            | 1.4 - 1.8 | %                         | ISO 294-4        |
| Shrinkage (lateral, 24h)               | 1.6 - 2   | %                         | ISO 294-4        |
| <b>Physical Properties</b>             |           |                           |                  |
| Density                                | 1120      | kg/m <sup>3</sup>         | ISO 1183         |
| <b>Ecological Properties</b>           |           |                           |                  |
| Global Warming Potential (GWP)         | 0.44      | kg CO <sub>2</sub> eq./kg | ISO 14040, 14044 |