

## Technical Data Sheet



### ALTECH PA66 ECO 4015/120 MR15 IM

|                        |                                                                                    |
|------------------------|------------------------------------------------------------------------------------|
| Base Polymer           | Polyamide 66                                                                       |
| Filler/Additive System | 15 % talcum                                                                        |
| Special Features       | impact modified,heat stabilised,easy release (demoulding),injection moulding grade |
| Market Segment         | Automotive,various                                                                 |
| Typical Applications   | wheel trims,various                                                                |

|                               |                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | 80 °C in a dry air (dessiccant) dryer for 2-12 h<br>dependant on moisture content<br>max. moisture content <0,15 % |
| Processing Injection Moulding | melt temperature 280-300 °C<br>mould temperature 80-100 °C                                                         |
| Storage                       | dry, protected from light                                                                                          |

| Properties                             | Value     | Dimension                 | Test Norm        |
|----------------------------------------|-----------|---------------------------|------------------|
| <b>Mechanical Properties</b>           |           |                           |                  |
| Flexural Modulus                       | 3300      | MPa                       | ISO 178          |
| Flexural Stress (3.5% Strain)          | 95        | MPa                       | ISO 178          |
| Tensile Modulus                        | 3300      | MPa                       | ISO 527          |
| Tensile Strength                       | 75        | MPa                       | ISO 527          |
| Tensile Elongation at Break            | 18        | %                         | ISO 527          |
| Impact Strength (Charpy, 23°C)         | 250       | kJ/m <sup>2</sup>         | ISO 179/1eU      |
| Notched Impact Strength (Charpy, 23°C) | 8.5       | kJ/m <sup>2</sup>         | ISO 179/1eA      |
| <b>Thermal Properties</b>              |           |                           |                  |
| HDT / A (1,8 MPa)                      | 78        | °C                        | ISO 75-1/-2      |
| <b>Rheological Properties</b>          |           |                           |                  |
| Shrinkage (lengthwise, 24h)            | 1.3 - 1.7 | %                         | ISO 294-4        |
| Shrinkage (lateral, 24h)               | 1.1 - 1.5 | %                         | ISO 294-4        |
| <b>Physical Properties</b>             |           |                           |                  |
| Density                                | 1250      | kg/m <sup>3</sup>         | ISO 1183         |
| <b>Ecological Properties</b>           |           |                           |                  |
| Global Warming Potential (GWP)         | 0.47      | kg CO <sub>2</sub> eq./kg | ISO 14040, 14044 |