

## Technical Data Sheet



### ALCOM PA66 910/1 GF15 MR25

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| Base Polymer           | Polyamide 66                                              |
| Filler/Additive System | 15 % glass fibres, 25 % mineral                           |
| Special Features       | heat stabilised, improved surface appearance, low warpage |
| Typical Applications   | housings, functional components                           |

|                               |                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | 80 °C in a dry air (dessiccant) dryer<br>for 2-12 h<br>dependant on moisture content |
| Processing Injection Moulding | melt temperature 280-300 °C<br>mould temperature 80-120 °C                           |
| Storage                       | dry, protected from light                                                            |

| Properties                              | dry/cond. | Dimension         | Test Norm   |
|-----------------------------------------|-----------|-------------------|-------------|
| <b>Mechanical Properties</b>            |           |                   |             |
| Flexural Modulus                        | 7800 / -  | MPa               | ISO 178     |
| Flexural Strength                       | 190 / -   | MPa               | ISO 178     |
| Tensile Modulus                         | 8200 / -  | MPa               | ISO 527     |
| Tensile Strength at Break               | 130 / -   | MPa               | ISO 527     |
| Tensile Elongation at Break             | 2.5 / -   | %                 | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 40 / -    | kJ/m <sup>2</sup> | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 35 / -    | kJ/m <sup>2</sup> | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 3.5 / -   | kJ/m <sup>2</sup> | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 3 / -     | kJ/m <sup>2</sup> | ISO 179/1eA |
| <b>Thermal Properties</b>               |           |                   |             |
| HDT / A (1,8 MPa)                       | 250 / *   | °C                | ISO 75-1/-2 |
| DSC (Melt Point)                        | 263 / *   | °C                | ISO 11357   |
| <b>Rheological Properties</b>           |           |                   |             |
| Shrinkage (lengthwise, 24h)             | 0.3 - 0.8 | %                 | ISO 294-4   |
| Shrinkage (lateral, 24h)                | 0.6 - 1   | %                 | ISO 294-4   |
| <b>Physical Properties</b>              |           |                   |             |
| Density                                 | 1460 / -  | kg/m <sup>3</sup> | ISO 1183    |