

**ALCOM PA6 900/8.4 GF10 MR20 NC0001-00**

(Last update: 30.01.2025)

**MOCOM**

|                        |                                 |
|------------------------|---------------------------------|
| Base Polymer           | Polyamide 6                     |
| Filler/Additive System | 10 % glass fibres, 20 % mineral |
| Special Features       | heat stabilised, easy flow      |
| 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 270-290 °C<br>mould temperature 80-100 °C                           |
| Storage                       | dry, protected from light                                                            |

| Properties                              | dry/cond.   | Dimension              | Test Norm   |
|-----------------------------------------|-------------|------------------------|-------------|
| <b>Mechanical Properties</b>            |             |                        |             |
| Flexural Modulus                        | 7400 / 5800 | MPa                    | ISO 178     |
| Flexural Strength                       | 170 / 120   | MPa                    | ISO 178     |
| Tensile Modulus                         | 8200 / 5500 | MPa                    | ISO 527     |
| Tensile Strength at Break               | 110 / 65    | MPa                    | ISO 527     |
| Tensile Elongation at Break             | 2.6 / 6.5   | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 45 / 40     | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 40 / -      | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 5 / 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)                       | 200 / *     | °C                     | ISO 75-1/-2 |
| DSC (Melt Point)                        | 220 / *     | °C                     | ISO 11357   |
| <b>Rheological Properties</b>           |             |                        |             |
| Melt Index (MVR)                        | 55 / *      | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                         | 275 / *     | °C                     | -           |
| MVR load                                | 5 / *       | kg                     | -           |
| Shrinkage (lengthwise, 24h)             | 0.2 - 0.4   | %                      | ISO 294-4   |
| Shrinkage (lateral, 24h)                | 0.6 - 0.8   | %                      | ISO 294-4   |
| <b>Physical Properties</b>              |             |                        |             |
| Density                                 | 1370 / -    | kg/m <sup>3</sup>      | ISO 1183    |
| <b>Flammability</b>                     |             |                        |             |
| Flammability (1.5 mm)                   | HB / *      | class                  | UL 94       |



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