



# TECHNICAL DATA SHEET

## Witcom PA66/10LG, based on Polyamide 66 (PA66)

50% long glass fibre, 11 mm granule length

| Properties | Test method | Unit | PA66/10LG |
|------------|-------------|------|-----------|
|------------|-------------|------|-----------|

### Physical properties

|                                        |          |                   |             |
|----------------------------------------|----------|-------------------|-------------|
| Specific gravity                       | ISO 1183 | g/cm <sup>3</sup> | 1,58        |
| Water absorption at saturation, 23 °C  | ISO 62   | %                 | 4,3         |
| Humidity absorption, 23 °C/50 % RH     | ISO 62   | %                 | 1,3         |
| Mould shrinkage (flow direction, 3 mm) | ISO 2577 | %                 | 0,15 - 0,25 |

### Mechanical properties

|                                   |             |                   |      |
|-----------------------------------|-------------|-------------------|------|
| Tensile strength (max.)           | ISO 527     | MPa               | 265  |
| Elongation at break               | ISO 527     | %                 | 2,4  |
| Flexural strength                 | ISO 178     | MPa               | 420  |
| Flexural modulus                  | ISO 178     | GPa               | 14,5 |
| Charpy impact strength, notched   | ISO 179/1eA | kJ/m <sup>2</sup> | 35   |
| Charpy impact strength, unnotched | ISO 179/1eU | kJ/m <sup>2</sup> | 83   |

### Thermal properties

|                                              |           |                    |     |
|----------------------------------------------|-----------|--------------------|-----|
| Heat distortion temperature (1,81 MPa)       | ISO 75    | °C                 | 253 |
| Relative temperature index, 3 mm with impact | UL 746B   | °C                 | 105 |
| Coefficient of linear thermal expansion      | ISO 11359 | K·10 <sup>-5</sup> | 2,0 |

### Flammability

|                   |          |   |             |
|-------------------|----------|---|-------------|
| Burning behaviour | ISO 1210 | - | HB @ 3,0 mm |
| UL recognition    | UL94     | - | -           |

### Electrical properties

|                            |             |      |                  |
|----------------------------|-------------|------|------------------|
| Surface resistivity        | ASTM D257   | Ω/sq | 10 <sup>12</sup> |
| Volume resistivity         | ASTM D257   | Ω·cm | -                |
| Comparative tracking index | IEC 60112   | V    | 500              |
| Glow wire rating, 1,6 mm   | IEC 695-2-1 | °C   | -                |

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