



## TECHNICAL DATA SHEET

# DECOmid A1G10

| PROPERTIES                                |                    | STANDARD                         | UNIT              | TYPICAL VALUES              |
|---|--------------------|----------------------------------|-------------------|-----------------------------|
| <b>PHYSICAL &amp; THERMAL</b>             |                    |                                  |                   |                             |
| Density                                   |                    | ISO 1183                         | g/cm <sup>3</sup> | 1,57                        |
| Melting Point                             |                    | DSC                              | °C                | 260                         |
| Mold Shrinkage (average)                  |                    | ISO 294-4                        | %                 | 0,3 - 0,5                   |
| Moisture Absorption (water immersion)     | 23oC - 24h         | ISO 62                           | %                 | 0,5                         |
| Melt Flow Index                           |                    | ISO 1133                         | g/10min           | -                           |
| Vicat Softening Temperature B             | 9,8 N              | ISO 306                          | °C                | 255                         |
| Heat Deflection Temperature0,45 MPa       |                    | ISO 75-2                         | °C                | 260                         |
| Heat Deflection Temperature1,81 MPa       |                    | ISO 75-2                         | °C                | 255                         |
| Heat Resistance / Ball test               |                    | IEC 335-1<br>IEC 60695-10-2      | °C                | > 165                       |
| Continuous Use Temperature (without load) |                    | IEC 60216                        | °C                | 130                         |
| <b>MECHANICAL</b>                         |                    |                                  |                   |                             |
| Tensile Strength at Yield                 |                    | ISO 527                          | MPa               | -                           |
| Tensile Strength at Break                 |                    | ISO 527                          | MPa               | 220                         |
| Tensile Modulus                           |                    | ISO 527                          | MPa               | 15000                       |
| Tensile Strain at Yield                   |                    | ISO 527                          | %                 | -                           |
| Tensile Strain at Break                   |                    | ISO 527                          | %                 | 2                           |
| Izod - Notched Impact Strength            |                    | ISO 180/A                        | KJ/m <sup>2</sup> | 16                          |
| Izod - Unnotched Impact Strength          |                    | ISO 180/U                        | KJ/m <sup>2</sup> | 105                         |
| <b>ELECTRICAL &amp; FLAME RETARDANCY</b>  |                    |                                  |                   |                             |
| Comparative Tracking Index (CTI)          |                    | IEC 60112                        | V                 | 600                         |
| Flammability                              | 3,2 / 1,6 / 0,8 mm | UL 94                            | -                 | HB                          |
| Burning Rate                              |                    | ISO 3795                         | mm/min            | <100                        |
| Glow Wire Flammability Index              | GWFI - 2 mm        | IEC 60695-2-12                   | °C                | 650                         |
| <b>Molding conditions (suggested)</b>     |                    |                                  |                   |                             |
| Drying Temperature > 3 h / 85 - 95 °C     |                    | Molding temperature 260 - 290 °C |                   | Mold temperature 70 - 90 °C |

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