

# Technical Data Sheet



## ROMILOY® ABS / PC 9035

ABS / PC-Blend, flame retardant

| Properties                              | Test Unit                          | Test Method     | Test Condition                 | Value*    | Remarks                           |
|-----------------------------------------|------------------------------------|-----------------|--------------------------------|-----------|-----------------------------------|
| <b>Mechanical .....</b>                 |                                    |                 |                                |           |                                   |
| Tensile Modulus                         | MPa                                | DIN EN ISO 527  | 1 mm/min<br>23 °C              | 2,600     |                                   |
| Tensile Strength                        | MPa                                | DIN EN ISO 527  | 50 mm/min<br>23 °C             | 53        |                                   |
| Elongation at Break                     | %                                  | DIN EN ISO 527  | 50 mm/min<br>23 °C             | 30        |                                   |
| Flexural Modulus                        | MPa                                | DIN EN ISO 178  | 2 mm/min<br>23 °C              | 2,700     |                                   |
| Flexural Strength                       | MPa                                | DIN EN ISO 178  | 2 mm/min<br>23 °C              | 92        |                                   |
| Notched Impact Strength (Charpy)        | kJ/m <sup>2</sup>                  | ISO 179 1eA     | 80 x 10 x 4 mm<br>23 °C/-30 °C | 26/-      |                                   |
| Impact Strength (Charpy)                | kJ/m <sup>2</sup>                  | ISO 179 1eU     | 80 x 10 x 4 mm<br>23 °C/-30 °C | n.b./-    |                                   |
| <b>Physical.....</b>                    |                                    |                 |                                |           |                                   |
| Density                                 | g/cm <sup>3</sup>                  | DIN EN ISO 1183 | 23 °C, 50% RH                  | 1.18      |                                   |
| Water Absorption                        | %                                  | DIN EN ISO 62   | 23 °C, 24 h                    | 0.3       |                                   |
| <b>Thermal.....</b>                     |                                    |                 |                                |           |                                   |
| Heat Distortion Temperature HDT A       | °C                                 | DIN EN ISO 75   | 1.8 MPa                        | 75        |                                   |
| Vicat Softening Temperature B 50        | °C                                 | DIN EN ISO 306  | 50 °C/h<br>50N                 | 99        |                                   |
| Melt Flow Rate, MFR                     | g/10 min                           | DIN EN ISO 1133 | 240 °C, 5kg                    | 30        |                                   |
| Thermal Coefficient of Linear Expansion | 10 <sup>-4</sup> · K <sup>-1</sup> | DIN 53752       | 23 °C-55 °C                    | -         |                                   |
| Shrinkage                               | %                                  | DIN 16901       | 23 °                           | 0.3 – 0.6 |                                   |
| Flammability                            | class                              | UL-94           | 1.6 mm                         | V0        | => UL listed<br>File No.: E148878 |

\* = These are average figures, which could vary in each production batch due to addition of pigments, antistatica, slip, uv stabilizer or other.

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