

## Technical Data Sheet

## Maywoflamm<sup>®</sup> PC/ABS

PC / ABS

### Typical characteristics

- Vacuum formable
- Rail Vehicle Standard DIN 5510 compliant
- Flame retardant

### Typical industries

- Vehicle Construction
- Vacuum Forming

|                                         | Test method             | Unit                 | Guideline value    |
|-----------------------------------------|-------------------------|----------------------|--------------------|
| <b>General properties</b>               |                         |                      |                    |
| Density                                 | DIN EN ISO 1183-1       | g / cm <sup>3</sup>  | 1,22               |
| Water absorption                        | DIN EN ISO 62           | %                    | 0,2                |
| Flammability                            | UL 94                   |                      | V0 (1,5mm)         |
| <b>Mechanical properties</b>            |                         |                      |                    |
| Yield stress                            | DIN EN ISO 527          | MPa                  | 65                 |
| Elongation at break                     | DIN EN ISO 527          | %                    | 60                 |
| Tensile modulus of elasticity           | DIN EN ISO 527          | MPa                  | 2710               |
| Notched impact strength                 | DIN EN ISO 179          | kJ / m <sup>2</sup>  | 40                 |
| <b>Thermal properties</b>               |                         |                      |                    |
| Melting temperature                     | ISO 11357-3             | °C                   | > 220              |
| Thermal conductivity                    | DIN 52612-1             | W / (m * K)          | 0,2                |
| Coefficient of linear thermal expansion | DIN 53752               | 10 <sup>-6</sup> / K | 68                 |
| Service temperature, long term          | Average                 | °C                   | 95                 |
| Service temperature, short term (max.)  | Average                 | °C                   | 110                |
| Vicat softening temperature             | DIN EN ISO 306, Vicat B | °C                   | 113                |
| <b>Electrical properties</b>            |                         |                      |                    |
| Surface resistivity                     | DIN EN 61340            | Ω                    | > 10 <sup>12</sup> |
| Volume resistivity                      | DIN EN 61340            | Ω                    | > 10 <sup>12</sup> |

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