

## Technical Data Sheet

# Maywoflamm<sup>®</sup> plus

### Typical characteristics

- Certified according to EN 45545-2

### Typical industries

- Vacuum Forming
- Rail Technology and Vehicles

|                                         | Test method             | Unit                 | Guideline value     |
|-----------------------------------------|-------------------------|----------------------|---------------------|
| <b>General properties</b>               |                         |                      |                     |
| Density                                 | DIN EN ISO 1183-1       | g / cm <sup>3</sup>  | 1,35                |
| Flammability                            | EN 45545                |                      | HL 2 R1, R6 (2-4mm) |
| <b>Mechanical properties</b>            |                         |                      |                     |
| Yield stress                            | DIN EN ISO 527          | MPa                  | 51                  |
| Elongation at break                     | DIN EN ISO 527          | %                    | 4                   |
| Tensile modulus of elasticity           | DIN EN ISO 527          | MPa                  | 4650                |
| Notched impact strength                 | DIN EN ISO 179          | kJ / m <sup>2</sup>  | 4                   |
| <b>Thermal properties</b>               |                         |                      |                     |
| Melting temperature                     | ISO 11357-3             | °C                   | > 220 °C            |
| Thermal conductivity                    | DIN 52612-1             | W / (m * K)          | 0,2                 |
| Coefficient of linear thermal expansion | DIN 53752               | 10 <sup>-6</sup> / K | 65                  |
| Service temperature, long term          | Average                 | °C                   | 90                  |
| Service temperature, short term (max.)  | Average                 | °C                   | 110                 |
| Vicat softening temperature             | DIN EN ISO 306, Vicat B | °C                   | 100                 |
| <b>Electrical properties</b>            |                         |                      |                     |
| Surface resistivity                     | DIN EN 61340            | Ohm                  | > 10 <sup>12</sup>  |
| Volume resistivity                      | DIN EN 61340            | Ohm                  | > 10 <sup>12</sup>  |

It is recommended to pre-dry Maywoflamm<sup>®</sup> plus before thermoforming at 80°C for 3 to 4 hours. The processing temperature of Maywoflamm<sup>®</sup> plus is between 165°C and 205°C. An expected post mold shrinkage will typically be in the range of 0,2-0,4%.

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