



## Technical data sheet

### ISOFORM 50 LDPE

#### Key benefits

Flexible and soft  
Thermoformable  
Moisture and chemical resistant

#### General application

Packaging  
Sealing  
Food industry

|  | Test method                  | Unit              | Value                               |
|--|------------------------------|-------------------|-------------------------------------|
| <b>General properties</b>                |                              |                   |                                     |
| Density                                  | DIN 53479                    | g/cm <sup>3</sup> | 0,93                                |
| Filler content                           |                              | %                 |                                     |
| <b>Mechanical Properties</b>             |                              |                   |                                     |
| Tensile modulus                          | ISO 527                      | MPa               | 200                                 |
| Tensile strength                         | ISO 527                      | MPa               | 20                                  |
| Elongation at break                      | ISO 527                      | %                 | >250                                |
| Flexural modulus                         | ISO 178                      | MPa               |                                     |
| Charpy notched impact strength at 23°C   | ISO 179                      | kJ/m <sup>2</sup> |                                     |
| Charpy unnotched impact strength at 23°C | ISO 179                      | kJ/m <sup>2</sup> | nb                                  |
| Hardness                                 | ISO 868                      | Shore D           | 48                                  |
| <b>Thermal properties</b>                |                              |                   |                                     |
| Melting temperature                      | ISO 3146                     | °C                | 115                                 |
| Vicat softening temperature - A50        | ISO 306/A50                  | °C                | 96                                  |
| Vicat softening temperature - B50        | ISO 306/B50                  | °C                |                                     |
| Heat deflection temperature B (0.45 MPa) | ISO 75B                      | °C                |                                     |
| Heat deflection temperature A (1.80 MPa) | ISO 75A                      | °C                |                                     |
| Service temperature (intermittent)       |                              | °C                | 90                                  |
| Service temperature (long term)          |                              | °C                | - 40 ... 70                         |
| <b>Other properties</b>                  |                              |                   |                                     |
| Surface resistivity                      | LabeOHM                      | Ω                 | >10 <sup>14</sup>                   |
| Water absorption                         | 24h/RT                       | %                 | <0,01                               |
| Flammability (thickness 3 mm)            | UL94                         |                   | HB                                  |
| Mould shrinkage                          | Compared to a reference form | %                 | Longitudinal:<br>/<br>Transverse: / |

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