

## DATA SHEET

### POLYPROPYLENE

Material

Polypropylene

#### Characteristics

|                                                       |              |                   |                   |
|-------------------------------------------------------|--------------|-------------------|-------------------|
| Density                                               | DIN 53479    | g/cm <sup>3</sup> | 0.91              |
| Tensile stress at yield                               | DIN 53455    | N/mm <sup>2</sup> | 35                |
| Percentage of elongation at break                     | DIN 53455    | %                 | 700               |
| Modulus of elasticity                                 | DIN 53457    | N/mm <sup>2</sup> | 1300              |
| Impact strength                                       | DIN 53453    | kJ/m <sup>2</sup> | no break          |
| Charpy Impact strength                                | DIN 53453    | kJ/m <sup>2</sup> | 25                |
| Time yield limit ( 1 % elongation after 1000 h )      | DIN 53444    | N/mm <sup>2</sup> | 4                 |
| Specific insulation material                          | DIN 53482    | cm                | 10 '7             |
| Dielectric constant                                   | DIN 53483    | 10 6 HZ           | 2.3               |
| Dissipation factor                                    | DIN 53483    | 10 6 HZ           | 0,0002            |
| Dielectric strength                                   | DIN 53481    | kV/mm             | 80                |
| Surface resistance                                    | DIN 53482    |                   | 10 <sup>-13</sup> |
| Temperature for use                                   | Short term   | °C                | 140               |
|                                                       | Max. lasting | °C                | 100               |
| Deflection temperature      method A                  | DIN 53461    |                   | 65                |
| Under load ISO-R 75      method B                     |              |                   | 105               |
| Coefficient of linear thermal extension 23 °C -100 °C | DIN 53752    | 10 -5x1/K         | 15                |
| Thermal conductivity                                  | DIN 52612    | W / ( Kxm )       | 0,22              |
| Flammability ( UL-standard 94 )                       |              |                   | HB                |
| Melting temperature                                   | DIN 53736    | °c                | 165               |
| Moisture pick up till saturation ( 23 °C )            | DIN 53715    | %                 | 0.03              |
| Water absorption till saturation                      | DIN 53495    | %                 | 0,1               |