

## TECAFINE PP grey - Stock Shapes (rods, plates, tubes)

### Chemical Designation

PP (Polypropylene)

### Colour

grey opaque

### Density

0.91 g/cm<sup>3</sup>

### Main features

- excellent chemical resistance
- excellent stiffness
- heat stabilized
- very good weldable

### Target Industries

- pharmaceutical industry
- chemical technology
- agricultural machinery
- construction industry
- food engineering
- power engineering

| <i>Mechanical properties</i>         | <i>parameter</i> | <i>value</i>     | <i>unit</i>                      | <i>norm</i>          | <i>comment</i>                                                                                 |
|--------------------------------------|------------------|------------------|----------------------------------|----------------------|------------------------------------------------------------------------------------------------|
| Modulus of elasticity (tensile test) |                  | 1700             | MPa                              | DIN EN ISO 527-1     | (1) n.b. = not broken                                                                          |
| Tensile strength at yield            |                  | 33               | MPa                              | DIN EN ISO 527-1     |                                                                                                |
| Elongation at yield (tensile test)   |                  | 8                | %                                | DIN EN ISO 527-1     |                                                                                                |
| Impact strength (Charpy)             |                  | n.b.             | kJ/m <sup>2</sup>                | DIN EN ISO 179-1     | 1)                                                                                             |
| Ball indentation hardness            |                  | 70               | MPa                              | ISO 2039-1           |                                                                                                |
| Shore hardness                       | Shore D          | 72               |                                  | DIN EN ISO 868       |                                                                                                |
| <i>Thermal properties</i>            | <i>parameter</i> | <i>value</i>     | <i>unit</i>                      | <i>norm</i>          | <i>comment</i>                                                                                 |
| Service temperature                  |                  | +0 - +100        | °C                               | -                    | 1)                                                                                             |
| Thermal expansion (CLTE)             |                  | 16               | 10 <sup>-5</sup> K <sup>-1</sup> | DIN EN ISO 11359-1;2 | (1) Found in public sources. Individual testing regarding application conditions is mandatory. |
| <i>Electrical properties</i>         | <i>parameter</i> | <i>value</i>     | <i>unit</i>                      | <i>norm</i>          | <i>comment</i>                                                                                 |
| surface resistivity                  |                  | 10 <sup>14</sup> | Ω                                | -                    |                                                                                                |
| Dielectric strength                  |                  | 52               | kV/mm                            | ISO 60243-1          |                                                                                                |
| <i>Other properties</i>              | <i>parameter</i> | <i>value</i>     | <i>unit</i>                      | <i>norm</i>          | <i>comment</i>                                                                                 |
| Flammability                         | corresponding to | B2               |                                  | DIN 4102             | 1)                                                                                             |

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