



PE-1000 200x1000 mm natur

Artikelnr P1004321  
Material PE

1. Tekniskt datablad

| Egenskap                                   | Värde            | Enhet   | Standard           |
|--------------------------------------------|------------------|---------|--------------------|
| Density                                    | 0.95             | g/cm³   | ISO 1183           |
| Tensile Strength                           | 17               | MPa     | ISO 527            |
| Modulus of elasticity (tensile)            | 800              | MPa     | DIN EN ISO 527-1/2 |
| Breakdown Voltage                          | 40               | MPa     | ISO 527            |
| Break Elongation                           | 200              | %       | ISO 527            |
| Melting point                              | 135              | °C      | ISO 3146           |
| Maximal operating temperature (short-term) | 100              | °C      |                    |
| Maximum Operating Temperature              | 64               | °C      |                    |
| Minimum temperature                        | -214             | °C      | UL746B             |
| Heat deflection temperature (HDT/A)        | 42               | °C      | ISO 75             |
| Heat deflection temperature (HDT/B)        | 65               | °C      | ISO 75             |
| Vicat softening temperature (VST/B/50)     | 79               | °C      | DIN EN ISO 306     |
| Dielectric Strength                        | 45               | kV/mm   | IEC 60243-1        |
| Volume Resistivity                         | 1                | Ω       | IEC 60093          |
| Dielectric Constant (1 MHz)                | 2.3              | -       | IEC 60250          |
| Dielectric Constant (100 Hz)               | 2.55             | -       | IEC 60250          |
| Dielectric loss factor (1 MHz)             | 0.0              | -       | IEC 60250          |
| Dielectric loss factor (100 Hz)            | 0.0              | -       | IEC 60250          |
| Flammability Classification (UL 94)        | 3                |         | UL 94              |
| Flexural Strength                          | 17               | MPa     | ISO 527-2          |
| Thermal Conductivity                       | 0.4              | W/(m·K) | DIN 52612          |
| Surface Resistivity                        | 10 <sup>12</sup> | Ω       | IEC 60093          |
| Comparative Tracking Index (CTI)           | 600              | V       | IEC 60112          |
| Water absorption to saturation             | 0.01             | %       |                    |
| Water Absorption to Saturation             | 0.01             | %       | ISO 62             |

| Egenskap                         | Värde | Enhet               | Standard           |
|----------------------------------|-------|---------------------|--------------------|
| Notched impact strength (Charpy) | 80    | kJ/m²               | ISO 11542-2        |
| Impact Resistance (Charpy)       | 80    | kJ/m²               | DIN EN ISO 179-1/2 |
| Thermal Expansion Coefficient    | 2     | 10 <sup>-4</sup> /K | ISO 11359          |
| Hardness Shore D                 | 60    | ° Shore D           | shore D            |
| Ball pressure hardness           | 34    | MPa                 | ISO 2039-1         |
| Creep Voltage at 1% Elongation   | 24    | MPa                 | ISO 178            |

## 2. Kemisk beständighet

● Beständig   ● Delvis beständig   ● Ej beständig

| Kemikalie                             | Konc. | Resultat |
|---------------------------------------|-------|----------|
| 1,4-Dioxane                           | 100   | ●        |
| 2-Hydroxypropionic acid (lactic acid) | 90    | ●        |
| Acetic acid                           | 100   | ●        |
| Acetone                               | 100   | ●        |
| Ammonia                               | -     | ●        |
| Ammonium chloride                     | -     | ●        |
| Amyl alcohol                          | -     | ●        |
| Benzene                               | -     | ●        |
| Boric acid                            | 100   | ●        |
| Brake fluid                           | -     | ●        |
| Butyl acetate                         | -     | ●        |
| Calcium chloride                      | -     | ●        |
| Citric acid                           | 10    | ●        |
| Cresol                                | -     | ●        |
| Cyclohexanone                         | 100   | ●        |
| Cyclohexene                           | 100   | ●        |
| Diesel                                | -     | ●        |
| Ethyl acetate                         | 100   | ●        |
| Ethyl alcohol (ethanol)               | 96    | ●        |
| Food oil                              | -     | ●        |
| Formaldehyde, aqueous                 | 40    | ●        |
| Formic acid                           | 10    | ●        |
| Frost protection agent                | -     | ●        |
| Fuel oil                              | -     | ●        |

| Kemikalie                                | Konc.     | Resultat |
|------------------------------------------|-----------|----------|
| Fuel, aromatic free                      | -         | ●        |
| Glycerine                                | 100       | ●        |
| Glycol                                   | 100       | ●        |
| Heptane                                  | 100       | ●        |
| Hydrochloric acid                        | 10        | ●        |
| Hydrochloric acid (concentrated)         | -         | ●        |
| Hydrogen peroxide                        | 10        | ●        |
| Isopropyl alcohol                        | 100       | ●        |
| Linseed oil                              | -         | ●        |
| Mercurochrome                            | -         | ●        |
| Methyl alcohol (methanol)                | 100       | ●        |
| Methylene chloride                       | 100       | ●        |
| Milk                                     | -         | ●        |
| Mineral oils, aromatic free              | -         | ●        |
| Nitric acid                              | 10        | ●        |
| Nitric acid                              | 50        | ●        |
| Nitrobenzene                             | -         | ●        |
| Oxalic acid                              | -         | ●        |
| Ozone (gas)                              | ≤ 0.5 ppm | ●        |
| Paraffin oil                             | 100       | ●        |
| Perchloroethylene                        | -         | ●        |
| Petroleum ether                          | 100       | ●        |
| Phenol, aqueous                          | ca. 9     | ●        |
| Phosphoric acid                          | 50        | ●        |
| Potassium hydroxide solution             | 50        | ●        |
| Premium fuel                             | -         | ●        |
| Propyl alcohol                           | -         | ●        |
| Silicone oil                             | -         | ●        |
| Sodium carbonate, aqueous                | -         | ●        |
| Sodium chloride, aqueous                 | -         | ●        |
| Sodium hydrogen sulfite                  | -         | ●        |
| Sodium hydroxide solution (caustic soda) | 60        | ●        |
| Sodium hydroxide solution (caustic soda) | 15        | ●        |
| Sodium nitrate, aqueous                  | -         | ●        |
| Sodium thiosulfate                       | -         | ●        |

| Kemikalie         | Konc.  | Resultat    |
|-------------------|--------|-------------|
| Sulphuric acid    | 96     | <div></div> |
| Transformer oil   | -      | <div></div> |
| Vinegar, standard | 5 - 10 | <div></div> |
| Water             | -      | <div></div> |
| Xylene            | -      | <div></div> |