



# PE-1000 90x1000 mm natural

Artikelnr P1004311

## 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·m     | 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                        | 10¹¹ Ω² | 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             |
| Notched impact strength (Charpy)           | 80      | kJ/m²   | ISO 11542-2        |
| Impact Resistance (Charpy)                 | 80      | kJ/m²   | DIN EN ISO 179-1/2 |

| Egenskap                       | V rde | Enhet      | Standard   |
|--------------------------------|-------|------------|------------|
| Thermal Expansion Coefficient  | 2     | 10   /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 best ndighet

● Best ndig ● Delvis best ndig ● Ej best ndig

| 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                              |       | ●        |
| Fuel, aromatic free                   |       | ●        |
| Glycerine                             | 100   | ●        |

| Kemikalie                                | Konc.       | Resultat |
|------------------------------------------|-------------|----------|
| Glycol                                   | 100         | ●        |
| Heptane                                  | 100         | ●        |
| Hydrochloric acid                        | 10          | ●        |
| Hydrochloric acid (concentrated)         | â€”         | ●        |
| Hydrogen peroxide                        | 10          | ●        |
| Isopropyl alcohol                        | 100         | ●        |
| Linseed oil                              | â€”         | ●        |
| Mercurochrome                            | â€”         | ●        |
| Methyl alcohol (methanol)                | 100         | ●        |
| Methylene chloride                       | 100         | ●        |
| Milk                                     | â€”         | ●        |
| Mineral oils, aromatic free              | â€”         | ●        |
| Nitric acid                              | 10          | ●        |
| Nitric acid                              | 50          | ●        |
| Nitrobenzene                             | â€”         | ●        |
| Oxalic acid                              | â€”         | ●        |
| Ozone (gas)                              | â‰¥ 0.5 ppm | ●        |
| Paraffin oil                             | 100         | ●        |
| Perchloroethylene                        | â€”         | ●        |
| Petroleum ether                          | 100         | ●        |
| Phenol, aqueous                          | ca. 9       | ●        |
| Phosphoric acid                          | 50          | ●        |
| Potassium hydroxide solution             | 50          | ●        |
| Premium fuel                             | â€”         | ●        |
| Propyl alcohol                           | â€”         | ●        |
| Silicone oil                             | â€”         | ●        |
| Sodium carbonate, aqueous                | â€”         | ●        |
| Sodium chloride, aqueous                 | â€”         | ●        |
| Sodium hydrogen sulfite                  | â€”         | ●        |
| Sodium hydroxide solution (caustic soda) | 60          | ●        |
| Sodium hydroxide solution (caustic soda) | 15          | ●        |
| Sodium nitrate, aqueous                  | â€”         | ●        |
| Sodium thiosulfate                       | â€”         | ●        |
| Sulphuric acid                           | 96          | ●        |

| Kemikalie         | Konc.  | Resultat |
|-------------------|--------|----------|
| Transformer oil   | â€”    | ●        |
| Vinegar, standard | 5 - 10 | ●        |
| Water             | â€”    | ●        |
| Xylene            | â€”    | ●        |