



# PVDF 120x1000 mm luonnollinen

Artikelnr P1010599  
Material PVDF

## 1. Tekniskt datablad

| Egenskap                                      | Värde            | Enhet   | Standard    |
|-----------------------------------------------|------------------|---------|-------------|
| Tiheys                                        | 1.78             | g/cm³   | ISO1183     |
| Venymisrajan jännitys                         | 40               | MPa     | ISO 527     |
| Joustavuusmoduli (vetolujuus)                 | 2200             | MPa     | ISO527-2    |
| Murtolujuus                                   | 46               | MPa     | ISO 527     |
| Murtovenymä                                   | 17               | %       | ISO527-2    |
| Sulamispiste                                  | 171              | °C      | ISO11357    |
| Maksimaalinen käyttölämpötila (lyhytaikainen) | 142              | °C      | UL746B      |
| Maksimi käyttölämpötila                       | 130              | °C      | UL746B      |
| Alin lämpötila                                | -26              | °C      |             |
| Lämpökäyrä (HDT/A)                            | 104              | °C      | ISO 75      |
| Lämpökäyrä (HDT/B)                            | 145              | °C      | ISO 75      |
| Vicat-pehmenemislämpötila (VST/B/50)          | 138              | °C      | ISO 306     |
| Dielektrinen voimakkuus                       | 27               | kV/mm   | IEC 60243-1 |
| Tilavuusresistanssi                           | 10 <sup>13</sup> | Ω·cm    | IEC 60093   |
| Dielektrinen vakio (1 MHz)                    | 7.7              | -       | IEC 60250   |
| Dielektrinen hajoamiskerroin (1 MHz)          | 0.1              | -       | IEC 60250   |
| Taivutuslujuus                                | 62               | MPa     | ISO527-2    |
| Lämmönjohtavuus                               | 0.25             | W/(m·K) | DIN22007-4  |
| Pintaresistanssi                              | 10 <sup>14</sup> | Ω       | IEC60093    |
| Vertailukulkemisindeksi (CTI)                 | 600              | V       | IEC 60112   |
| Imeytymisen maksimointi                       | 0.15             | %       | ISO62       |
| Vesihaku kyllästymiseen                       | 0.35             | %       | ISO62       |
| Särkyäkesto (Charpy)                          | 8                | kJ/m²   | ISO 179     |
| Iskunkestävyys (Charpy)                       | 150              | kJ/m²   | ISO179/1eU  |

| Egenskap               | Värde | Enhet               | Standard |
|------------------------|-------|---------------------|----------|
| Lämpölaajenemiskerroin | 1.6   | 10 <sup>-4</sup> /K | ISO11359 |
| Kovuus Shore D         | 80    | ° Shore D           | ISO868   |
| Kulmapaineen kovuus    | 120   | MPa                 | ISO 2039 |

## 2. Kemisk beständighet

● Beständig   ● Delvis beständig   ● Ej beständig

| Kemikalie                             | Konc. | Resultat       |
|---------------------------------------|-------|----------------|
| 1,4-Dioxane                           | 100   | <span>●</span> |
| 2-Hydroxypropionic acid (lactic acid) | 90    | <span>●</span> |
| Acetic acid                           | 100   | <span>●</span> |
| Acetone                               | 100   | <span>●</span> |
| Ammonia                               | -     | <span>●</span> |
| Ammonium chloride                     | -     | <span>●</span> |
| Amyl alcohol                          | -     | <span>●</span> |
| Apple juice                           | -     | <span>●</span> |
| Benzene                               | -     | <span>●</span> |
| Bleaching solution                    | -     | <span>●</span> |
| Boric acid                            | 100   | <span>●</span> |
| Brake fluid                           | -     | <span>●</span> |
| Butyl acetate                         | -     | <span>●</span> |
| Calcium chloride                      | -     | <span>●</span> |
| Carbon disulphide                     | 100   | <span>●</span> |
| Carbon tetrachloride                  | -     | <span>●</span> |
| Chlorine (gas)                        | 100   | <span>●</span> |
| Chlorobenzene                         | 100   | <span>●</span> |
| Chloroform                            | -     | <span>●</span> |
| Citric acid                           | 10    | <span>●</span> |
| Cresol                                | -     | <span>●</span> |
| Cyclohexanone                         | 100   | <span>●</span> |
| Cyclohexene                           | 100   | <span>●</span> |
| Diesel                                | -     | <span>●</span> |
| Diethylene oxide                      | -     | <span>●</span> |
| Ethyl acetate                         | 100   | <span>●</span> |
| Ethyl alcohol (ethanol)               | 96    | <span>●</span> |

| Kemikalie                        | Konc.     | Resultat |
|----------------------------------|-----------|----------|
| Ethylene chloride                | 100       | ●        |
| Food oil                         | -         | ●        |
| Formaldehyde (aqueous)           | 40        | ●        |
| Formic acid                      | 10        | ●        |
| Frost protection agent           | -         | ●        |
| Fuel oil                         | -         | ●        |
| Fuel, aromatic free              | -         | ●        |
| Glycerine                        | 100       | ●        |
| Glycol                           | 100       | ●        |
| Heptane                          | 100       | ●        |
| Hydrochloric acid                | 10        | ●        |
| Hydrochloric acid (concentrated) | -         | ●        |
| Hydrofluoric acid                | 40        | ●        |
| Hydrogen peroxide                | 10        | ●        |
| Hydrogen sulfide (aqueous)       | -         | ●        |
| Isopropyl alcohol                | 100       | ●        |
| Linseed oil                      | -         | ●        |
| Mercurochrome                    | -         | ●        |
| Methyl alcohol (methanol)        | 100       | ●        |
| Methyl ethyl ketone (MEK)        | 100       | ●        |
| Methylene chloride               | 100       | ●        |
| Milk                             | -         | ●        |
| Mineral oils (aromatic free)     | -         | ●        |
| Nitric acid                      | 10        | ●        |
| Nitric acid (50%)                | 50        | ●        |
| Nitrobenzene                     | -         | ●        |
| Oxalic acid                      | -         | ●        |
| Ozone (gas)                      | ≤ 0.5 ppm | ●        |
| Paraffin oil                     | 100       | ●        |
| Perchloroethylene                | -         | ●        |
| Petroleum                        | 100       | ●        |
| Phenol (aqueous)                 | ca. 9     | ●        |
| Phosphoric acid                  | 50        | ●        |
| Potassium hydroxide solution     | 50        | ●        |
| Premium fuel                     | -         | ●        |

| Kemikalie                                | Konc.  | Resultat |
|------------------------------------------|--------|----------|
| Propyl alcohol                           | -      | ●        |
| Pyridine                                 | -      | ●        |
| Silicone oil                             | -      | ●        |
| Sodium carbonate (aqueous)               | -      | ●        |
| Sodium chloride (aqueous)                | -      | ●        |
| Sodium hydrogen sulfite                  | -      | ●        |
| Sodium hydroxide solution (60%)          | 60     | ●        |
| Sodium hydroxide solution (caustic soda) | 15     | ●        |
| Sodium nitrate (aqueous)                 | -      | ●        |
| Sodium thiosulfate                       | -      | ●        |
| Sulphuric acid                           | 96     | ●        |
| Tetrahydrofuran (THF)                    | 100    | ●        |
| Toluene                                  | 100    | ●        |
| Transformer oil                          | -      | ●        |
| Trichloroethylene                        | 100    | ●        |
| Vinegar (standard)                       | 5 - 10 | ●        |
| Water                                    | -      | ●        |
| Xylene                                   | -      | ●        |