



PVDF 180x1000 mm svart

Artikelnr P1010534  
Material PVDF

1. Tekniskt datablad

| Egenskap                                   | Värde            | Enhet               | Standard    |
|--------------------------------------------|------------------|---------------------|-------------|
| Density                                    | 1.78             | g/cm³               | ISO1183     |
| Tensile Strength                           | 40               | MPa                 | ISO 527     |
| Modulus of elasticity (tensile)            | 2200             | MPa                 | ISO527-2    |
| Breakdown Voltage                          | 46               | MPa                 | ISO 527     |
| Break Elongation                           | 17               | %                   | ISO527-2    |
| Melting point                              | 171              | °C                  | ISO11357    |
| Maximal operating temperature (short-term) | 142              | °C                  | UL746B      |
| Maximum Operating Temperature              | 130              | °C                  | UL746B      |
| Minimum temperature                        | -26              | °C                  |             |
| Heat deflection temperature (HDT/A)        | 104              | °C                  | ISO 75      |
| Heat deflection temperature (HDT/B)        | 145              | °C                  | ISO 75      |
| Vicat softening temperature (VST/B/50)     | 138              | °C                  | ISO 306     |
| Dielectric Strength                        | 27               | kV/mm               | IEC 60243-1 |
| Volume Resistivity                         | 10 <sup>13</sup> | Ω·cm                | IEC 60093   |
| Dielectric Constant (1 MHz)                | 7.7              | -                   | IEC 60250   |
| Dielectric loss factor (1 MHz)             | 0.1              | -                   | IEC 60250   |
| Flexural Strength                          | 62               | MPa                 | ISO527-2    |
| Thermal Conductivity                       | 0.25             | W/(m·K)             | DIN22007-4  |
| Surface Resistivity                        | 10 <sup>14</sup> | Ω                   | IEC60093    |
| Comparative Tracking Index (CTI)           | 600              | V                   | IEC 60112   |
| Water absorption to saturation             | 0.15             | %                   | ISO62       |
| Water Absorption to Saturation             | 0.35             | %                   | ISO62       |
| Notched impact strength (Charpy)           | 8                | kJ/m²               | ISO 179     |
| Impact Resistance (Charpy)                 | 150              | kJ/m²               | ISO179/1eU  |
| Thermal Expansion Coefficient              | 1.6              | 10 <sup>-4</sup> /K | ISO11359    |

| Egenskap               | Värde | Enhet     | Standard |
|------------------------|-------|-----------|----------|
| Hardness Shore D       | 80    | ° Shore D | ISO868   |
| Ball pressure hardness | 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> |
| Ethylene chloride                     | 100   | <span>●</span> |

| Kemikalie                        | Konc.     | Resultat |
|----------------------------------|-----------|----------|
| 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                     | -         | ●        |
| Propyl alcohol                   | -         | ●        |

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