



# PVDF 45x2000 mm natur

Artikelnr P2202642

## 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                         | 10¹³  | 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                        | 10¹³  | 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   | 10⁻⁵/K    | ISO11359    |
| Hardness Shore D                           | 80    | ° Shore D | ISO868      |
| Ball pressure hardness                     | 120   | MPa       | ISO 2039    |

| Egenskap | V rde | Enhet | Standard |
|----------|-------|-------|----------|
|----------|-------|-------|----------|

2. Kemisk best ndighet

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

| 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> |
| Food oil                              |       | <span>  </span> |
| Formaldehyde (aqueous)                | 40    | <span>  </span> |

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

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