



PC 16x3000 mm transparent

Artikelnr P1002637  
Material PC

1. Tekniskt datablad

| Egenskap                                   | Värde            | Enhet   | Standard    |
|--------------------------------------------|------------------|---------|-------------|
| Density                                    | 1.2              | g/cm³   | ISO 1183    |
| Tensile Strength                           | 75               | MPa     | ISO 527     |
| Modulus of elasticity (tensile)            | 2400             | MPa     | ISO 527-2   |
| Breakdown Voltage                          | 60               | MPa     |             |
| Break Elongation                           | 50               | %       | ISO 527-2   |
| Melting point                              | 160              | °C      | ISO 3146    |
| Maximal operating temperature (short-term) | 119              | °C      | UL746B      |
| Maximum Operating Temperature              | 113.75           | °C      |             |
| Minimum temperature                        | -54              | °C      | UL746B      |
| Heat deflection temperature (HDT/A)        | 130              | °C      | ISO 75-2    |
| Heat deflection temperature (HDT/B)        | 140              | °C      | ISO 75      |
| Vicat softening temperature (VST/B/50)     | 150              | °C      | ISO 306     |
| Dielectric Strength                        | 29               | kV/mm   | IEC 60243-1 |
| Volume Resistivity                         | 10 <sup>13</sup> | Ω·cm    | IEC 60093   |
| Dielectric Constant (1 MHz)                | 2.98             | -       | IEC 60250   |
| Dielectric Constant (100 Hz)               | 3                | -       | IEC 60250   |
| Dielectric loss factor (1 MHz)             | 0.0              | -       | IEC 60250   |
| Dielectric loss factor (100 Hz)            | 0.0              | -       | IEC 60250   |
| Flammability Classification (UL 94)        | 0                |         | UL 94       |
| Flexural Strength                          | 2400             | MPa     | ISO 178     |
| Thermal Conductivity                       | 0.21             | W/(m·K) | DIN 52612   |
| Surface Resistivity                        | 10 <sup>15</sup> | Ω       | IEC 60093   |
| Comparative Tracking Index (CTI)           | 279.2            | V       | IEC 60112   |
| Water absorption to saturation             | 0.15             | %       | ISO 62      |
| Water Absorption to Saturation             | 0.35             | %       | ISO 62      |

| Egenskap                         | Värde | Enhet               | Standard    |
|----------------------------------|-------|---------------------|-------------|
| Notched impact strength (Charpy) | 9     | kJ/m²               | ISO 179/1eA |
| Thermal Expansion Coefficient    | 0.65  | 10 <sup>-4</sup> /K | DIN 11359   |
| Hardness Shore D                 | 85    | ° Shore D           | ISO 868     |
| Ball pressure hardness           | 120   | MPa                 | ISO 2039-1  |

## 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                               | conc.   | <span>●</span> |
| Ammonium chloride                     | -       | <span>●</span> |
| Apple juice                           | -       | <span>●</span> |
| Benzene                               | -       | <span>●</span> |
| Bleaching solution                    | 12.5 cl | <span>●</span> |
| Boric acid                            | 100%    | <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) | conc.     | ●        |
| 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                             | -         | ●        |
| Nitric acid (10%)                | 10%       | ●        |
| Nitric acid (50%)                | 50%       | ●        |
| Nitrobenzene                     | -         | ●        |
| Oxalic acid                      | -         | ●        |
| Ozone (gas)                      | ≤ 0.5 ppm | ●        |
| Paraffin oil                     | 100%      | ●        |
| Perchloroethylene                | -         | ●        |
| Petroleum                        | 100%      | ●        |
| Petroleum ether                  | 100%      | ●        |
| Phenol, aqueous                  | ca. 9%    | ●        |
| Phosphoric acid                  | 50%       | ●        |
| Potassium hydroxide solution     | 50%       | ●        |
| Premium fuel                     | -         | ●        |
| Propyl alcohol                   | -         | ●        |

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