



PET 1000x1000x80 mm natur

Artikelnr P1003814  
Material PET

1. Tekniskt datablad

| Egenskap                                   | Värde            | Enhet   | Standard         |
|--------------------------------------------|------------------|---------|------------------|
| Density                                    | 1.46             | g/cm³   | ISO 1183         |
| Tensile Strength                           | 52               | MPa     | ISO 527          |
| Modulus of elasticity (tensile)            | 3400             | MPa     | ISO 527-2        |
| Breakdown Voltage                          | 58               | MPa     | ISO 527          |
| Break Elongation                           | 5                | %       | ISO 527-2        |
| Melting point                              | 224              | °C      | ISO 3146         |
| Maximal operating temperature (short-term) | 138.75           | °C      | UL746B           |
| Maximum Operating Temperature              | 97               | °C      |                  |
| Minimum temperature                        | -25              | °C      |                  |
| Heat deflection temperature (HDT/A)        | 85               | °C      | ISO 75           |
| Heat deflection temperature (HDT/B)        | 100              | °C      | ISO 75           |
| Vicat softening temperature (VST/B/50)     | 219              | °C      | ISO 306          |
| Dielectric Strength                        | 22               | kV/mm   | IEC 60243-1      |
| Volume Resistivity                         | 10 <sup>18</sup> | Ω·cm    | DIN EN 62631-3-1 |
| Dielectric Constant (1 MHz)                | 3.3              | -       | IEC 60250        |
| Dielectric loss factor (1 MHz)             | 0.0              | -       | IEC 60250        |
| Dielectric loss factor (100 Hz)            | 0.0              | -       | IEC 60250        |
| Flexural Strength                          | 75.25            | MPa     | ISO 178          |
| Thermal Conductivity                       | 0.33             | W/(m·K) | DIN 52612        |
| Surface Resistivity                        | 10 <sup>14</sup> | Ω       | IEC 60093        |
| Comparative Tracking Index (CTI)           | 600              | V       | IEC 60112        |
| Water absorption to saturation             | 0.02             | %       | ISO 62           |
| Water Absorption to Saturation             | 0.02             | %       | ISO 62           |
| Notched impact strength (Charpy)           | 90               | kJ/m²   | ISO 180          |
| Impact Resistance (Charpy)                 | 37               | kJ/m²   | ISO 179/1eU      |

| Egenskap                      | Värde      | Enhet               | Standard  |
|-------------------------------|------------|---------------------|-----------|
| Thermal Expansion Coefficient | <b>0.8</b> | 10 <sup>-4</sup> /K | DIN 11359 |
| Hardness Shore D              | <b>77</b>  | ° Shore D           | ISO 868   |
| Rockwell hardness             | <b>112</b> | M-scale             |           |
| Ball pressure hardness        | <b>166</b> | MPa                 | ISO 2039  |

## 2. Kemisk beständighet

● Beständig
 ● Delvis beständig
 ● Ej beständig

| Kemikalie            | Konc. | Resultat       |
|----------------------|-------|----------------|
| 1,4-Dioxane          | 100   | <span>●</span> |
| 1,4-Dioxane          | 100   | <span>●</span> |
| Acetic acid          | 100   | <span>●</span> |
| Acetic acid          | 100%  | <span>●</span> |
| Acetic acid          | 100   | <span>●</span> |
| Acetone              | 100   | <span>●</span> |
| Acetone              | 100   | <span>●</span> |
| Ammonia              | conc. | <span>●</span> |
| Ammonia              | conc. | <span>●</span> |
| Apple juice          | -     | <span>●</span> |
| Apple juice          | -     | <span>●</span> |
| Benzene              | -     | <span>●</span> |
| Benzene              | -     | <span>●</span> |
| Bleaching solution   | -     | <span>●</span> |
| Brake fluid          | -     | <span>●</span> |
| Brake fluid          | -     | <span>●</span> |
| Butyl acetate        | -     | <span>●</span> |
| Butyl acetate        | -     | <span>●</span> |
| Calcium chloride     | -     | <span>●</span> |
| Calcium chloride     | -     | <span>●</span> |
| Carbon disulphide    | 100   | <span>●</span> |
| Carbon disulphide    | 100   | <span>●</span> |
| Carbon tetrachloride | -     | <span>●</span> |
| Carbon tetrachloride | -     | <span>●</span> |
| Carbon tetrachloride | -     | <span>●</span> |
| Chlorobenzene        | 100%  | <span>●</span> |
| Chlorobenzene        | 100   | <span>●</span> |

| Kemikalie               | Konc. | Resultat    |
|-------------------------|-------|-------------|
| Chlorobenzene           | 100   | <div></div> |
| Chloroform              | -     | <div></div> |
| Chloroform              | -     | <div></div> |
| Citric acid             | 10    | <div></div> |
| Citric acid             | 10    | <div></div> |
| Diesel                  | -     | <div></div> |
| Diesel                  | -     | <div></div> |
| Diethylene oxide        | -     | <div></div> |
| Diethylene oxide        | -     | <div></div> |
| Ethyl acetate           | 100   | <div></div> |
| Ethyl acetate           | 100   | <div></div> |
| Ethyl alcohol (ethanol) | 96    | <div></div> |
| Ethyl alcohol (ethanol) | 96%   | <div></div> |
| Ethyl alcohol (ethanol) | 96    | <div></div> |
| Ethylene chloride       | 100   | <div></div> |
| Ethylene chloride       | 100   | <div></div> |
| Food oil                | -     | <div></div> |
| Food oil                | -     | <div></div> |
| Food oil                | -     | <div></div> |
| Formic acid             | 10    | <div></div> |
| Formic acid             | 10    | <div></div> |
| Frost protection agent  | -     | <div></div> |
| Frost protection agent  | -     | <div></div> |
| Fuel oil                | -     | <div></div> |
| Fuel oil                | -     | <div></div> |
| Fuel, aromatic free     | -     | <div></div> |
| Fuel, aromatic free     | -     | <div></div> |
| Glycerine               | 100   | <div></div> |
| Glycerine               | 100   | <div></div> |
| Glycerine               | 100%  | <div></div> |
| Glycol                  | 100   | <div></div> |
| Glycol                  | 100   | <div></div> |
| Heptane                 | 100   | <div></div> |
| Heptane                 | 100   | <div></div> |

| Kemikalie                        | Konc. | Resultat    |
|----------------------------------|-------|-------------|
| Hydrochloric acid                | conc. | <div></div> |
| Hydrochloric acid                | 10    | <div></div> |
| Hydrochloric acid                | 10    | <div></div> |
| Hydrochloric acid                | conc. | <div></div> |
| Hydrochloric acid (concentrated) | conc. | <div></div> |
| Hydrofluoric acid                | 40%   | <div></div> |
| Hydrofluoric acid                | 40    | <div></div> |
| Hydrofluoric acid                | 40    | <div></div> |
| Hydrogen peroxide                | 10    | <div></div> |
| Hydrogen peroxide                | 10    | <div></div> |
| Hydrogen sulfide, aqueous        | -     | <div></div> |
| Isopropyl alcohol                | 100   | <div></div> |
| Isopropyl alcohol                | 100%  | <div></div> |
| Isopropyl alcohol                | 100   | <div></div> |
| Linseed oil                      | -     | <div></div> |
| Linseed oil                      | -     | <div></div> |
| Mercurochrome                    | -     | <div></div> |
| Methyl alcohol (methanol)        | 100   | <div></div> |
| Methyl alcohol (methanol)        | 100   | <div></div> |
| Methyl alcohol (methanol)        | 100%  | <div></div> |
| Methyl ethyl ketone (MEK)        | 100   | <div></div> |
| Methyl ethyl ketone (MEK)        | 100   | <div></div> |
| Methylene chloride               | 100   | <div></div> |
| Methylene chloride               | 100   | <div></div> |
| Milk                             | -     | <div></div> |
| Milk                             | -     | <div></div> |
| Mineral oils, aromatic free      | -     | <div></div> |
| Mineral oils, aromatic free      | -     | <div></div> |
| Nitric acid                      | 50    | <div></div> |
| Nitric acid                      | 50    | <div></div> |
| Nitric acid                      | 10%   | <div></div> |
| Nitric acid                      | 10    | <div></div> |
| Nitric acid                      | 10    | <div></div> |
| Paraffin oil                     | 100   | <div></div> |
| Paraffin oil                     | 100   | <div></div> |

| Kemikalie                                | Konc. | Resultat    |
|------------------------------------------|-------|-------------|
| Perchloroethylene                        | -     | <div></div> |
| Perchloroethylene                        | -     | <div></div> |
| Petroleum                                | 100%  | <div></div> |
| Petroleum                                | 100   | <div></div> |
| Petroleum ether                          | 100   | <div></div> |
| Petroleum ether                          | 100   | <div></div> |
| Petroleum ether                          | 100%  | <div></div> |
| Phenol, aqueous                          | ca.9  | <div></div> |
| Phosphoric acid                          | 50    | <div></div> |
| Phosphoric acid                          | 50    | <div></div> |
| Potassium hydroxide solution             | 50    | <div></div> |
| Potassium hydroxide solution             | 50    | <div></div> |
| Premium fuel                             | -     | <div></div> |
| Premium fuel                             | -     | <div></div> |
| Propyl alcohol                           | -     | <div></div> |
| Propyl alcohol                           | -     | <div></div> |
| Silicone oil                             | -     | <div></div> |
| Silicone oil                             | -     | <div></div> |
| Sodium carbonate, aqueous                | -     | <div></div> |
| Sodium carbonate, aqueous                | -     | <div></div> |
| Sodium chloride, aqueous                 | -     | <div></div> |
| Sodium chloride, aqueous                 | -     | <div></div> |
| Sodium hydrogen sulfite                  | -     | <div></div> |
| Sodium hydrogen sulfite                  | -     | <div></div> |
| Sodium hydrogen sulfite                  | -     | <div></div> |
| Sodium hydroxide solution (caustic soda) | 15    | <div></div> |
| Sodium hydroxide solution (caustic soda) | 60    | <div></div> |
| Sodium hydroxide solution (caustic soda) | 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> |
| Sulphuric acid                           | 96    | <div></div> |
| Tetrahydrofuran (THF)                    | 100   | <div></div> |
| Tetrahydrofuran (THF)                    | 100   | <div></div> |

| Kemikalie         | Konc. | Resultat    |
|-------------------|-------|-------------|
| Toluene           | 100   | <div></div> |
| Toluene           | 100   | <div></div> |
| Toluene           | 100%  | <div></div> |
| Transformer oil   | -     | <div></div> |
| Transformer oil   | -     | <div></div> |
| Trichloroethylene | 100   | <div></div> |
| Trichloroethylene | 100   | <div></div> |
| Vinegar, standard | 5-10  | <div></div> |
| Vinegar, standard | 5-10  | <div></div> |
| Vinegar, standard | 5-10% | <div></div> |
| Water             | -     | <div></div> |
| Water             | -     | <div></div> |
| Xylene            | -     | <div></div> |
| Xylene            | -     | <div></div> |