



PA12 1000x500x35 mm natur

Artikelnr P1000506  
Material PA

1. Tekniskt datablad

| Egenskap                                   | Värde             | Enhet               | Standard         |
|--------------------------------------------|-------------------|---------------------|------------------|
| Density                                    | 1.04              | g/cm³               |                  |
| Tensile Strength                           | 66                | MPa                 | ISO 527          |
| Modulus of elasticity (tensile)            | 1470              | MPa                 | ISO 527          |
| Breakdown Voltage                          | 45                | MPa                 | ISO 527          |
| Break Elongation                           | 50                | %                   | ISO 527          |
| Melting point                              | 180               | °C                  | DIN EN ISO 11357 |
| Maximal operating temperature (short-term) | 133               | °C                  | UL746B           |
| Maximum Operating Temperature              | 110               | °C                  |                  |
| Heat deflection temperature (HDT/A)        | 115               | °C                  | ISO 75           |
| Heat deflection temperature (HDT/B)        | 135               | °C                  | ISO 75           |
| Vicat softening temperature (VST/B/50)     | 50                | °C                  | ISO 306          |
| Dielectric Strength                        | 34                | kV/mm               | IEC 60243-1      |
| Volume Resistivity                         | 10 <sup>11</sup>  | Ω                   | IEC 60093        |
| Dielectric Constant (1 MHz)                | 1                 | -                   | IEC 60250        |
| Dielectric loss factor (1 MHz)             | 1                 | -                   | IEC 60250        |
| Flammability Classification (UL 94)        | 60695             |                     | UL 94            |
| Flexural Strength                          | 53                | MPa                 | DIN EN ISO 527-2 |
| Surface Resistivity                        | ~10 <sup>13</sup> | Ω                   | IEC 60093        |
| Comparative Tracking Index (CTI)           | 600               | V                   | IEC 60112        |
| Water absorption to saturation             | 3                 | %                   | ISO 62           |
| Water Absorption to Saturation             | 3                 | %                   | ISO 62           |
| Notched impact strength (Charpy)           | 7                 | kJ/m²               | DIN EN ISO 179-1 |
| Thermal Expansion Coefficient              | 0.9               | 10 <sup>-4</sup> /K | ISO 11359        |
| Hardness Shore D                           | 83                | ° Shore D           | ISO 868          |
| Ball pressure hardness                     | 90                | 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> |
| Acetone                               | 100     | <span>●</span> |
| Ammonia                               | conc.   | <span>●</span> |
| Ammonium chloride                     | -       | <span>●</span> |
| Amyl alcohol                          | -       | <span>●</span> |
| Apple juice                           | -       | <span>●</span> |
| Benzene                               | -       | <span>●</span> |
| Bleaching solution                    | 12.5 cl | <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> |
| Formic acid                           | 10      | <span>●</span> |
| Fuel (aromatic free)                  | -       | <span>●</span> |
| Fuel oil                              | -       | <span>●</span> |

| Kemikalie                                | Konc.     | Resultat |
|------------------------------------------|-----------|----------|
| 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                                     | -         | ●        |
| Mineral oils (aromatic free)             | -         | ●        |
| Nitric acid                              | 10        | ●        |
| Nitric acid                              | 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                           | -         | ●        |
| Pyridine                                 | -         | ●        |
| Silicone oil                             | -         | ●        |
| Sodium carbonate (aqueous)               | -         | ●        |
| Sodium chloride (aqueous)                | -         | ●        |
| Sodium hydroxide solution (caustic soda) | 15        | ●        |

| Kemikalie                | Konc.  | Resultat |
|--------------------------|--------|----------|
| Sodium nitrate (aqueous) | -      | ●        |
| Sodium thiosulfate       | -      | ●        |
| Sulphuric acid           | 96     | ●        |
| Tetrahydrofuran (THF)    | 100    | ●        |
| Toluene                  | 100    | ●        |
| Transformer oil          | -      | ●        |
| Trichloroethylene        | 100    | ●        |
| Vinegar (standard)       | 5 - 10 | ●        |
| Water                    | -      | ●        |
| Xylene                   | -      | ●        |