



PA6 E 1000x500x50 mm natur

Artikelnr P1001081  
Material PA

1. Tekniskt datablad

| Egenskap                                   | Värde            | Enhet   | Standard       |
|--------------------------------------------|------------------|---------|----------------|
| Density                                    | 1.14             | g/cm³   | ISO 1183       |
| Tensile Strength                           | 70               | MPa     | DIN EN ISO 527 |
| Modulus of elasticity (tensile)            | 3250             | MPa     | ISO 527-2      |
| Breakdown Voltage                          | 75               | MPa     | ISO 527-2      |
| Break Elongation                           | 40               | %       | ISO 527-2      |
| Melting point                              | 220              | °C      | ISO 3146       |
| Maximal operating temperature (short-term) | 160              | °C      |                |
| Maximum Operating Temperature              | 90.5             | °C      |                |
| Minimum temperature                        | -36              | °C      |                |
| Heat deflection temperature (HDT/A)        | 70               | °C      | ISO 75-2       |
| Heat deflection temperature (HDT/B)        | 140              | °C      | ISO 75-2       |
| Vicat softening temperature (VST/B/50)     | 190              | °C      | ISO 306        |
| Dielectric Strength                        | 25               | kV/mm   | IEC 60243-1    |
| Volume Resistivity                         | 10 <sup>12</sup> | Ω·cm    | IEC 60093      |
| Dielectric Constant (1 MHz)                | 3.7              | -       | IEC 60250      |
| Dielectric Constant (100 Hz)               | 3.9              | -       | IEC 60250      |
| Dielectric loss factor (1 MHz)             | 0.0              | -       | IEC 60250      |
| Dielectric loss factor (100 Hz)            | 0.0              | -       | IEC 60250      |
| Flammability Classification (UL 94)        | 3                |         | UL 94          |
| Flexural Strength                          | 76               | MPa     | ISO 527-2      |
| Thermal Conductivity                       | 0.28             | W/(m·K) | DIN 52612      |
| Surface Resistivity                        | 10 <sup>13</sup> | Ω       | IEC 60093      |
| Comparative Tracking Index (CTI)           | 600              | V       | IEC 60112      |
| Water absorption to saturation             | 2.5              | %       | ISO 62         |
| Water Absorption to Saturation             | 9                | %       | ISO 62         |

| Egenskap                         | Värde | Enhet               | Standard       |
|----------------------------------|-------|---------------------|----------------|
| Notched impact strength (Charpy) | 5.5   | kJ/m²               | ISO 179/1eA    |
| Thermal Expansion Coefficient    | 0.9   | 10 <sup>-4</sup> /K | ISO 11359      |
| Hardness Shore D                 | 82    | ° Shore D           | DIN EN ISO 868 |
| Ball pressure hardness           | 150   | MPa                 | ISO 2039-1     |

## 2. Kemisk beständighet

● Beständig   ● Delvis beständig   ● Ej beständig

| Kemikalie               | Konc.   | Resultat       |
|-------------------------|---------|----------------|
| 1,4-Dioxane             | 100     | <span>●</span> |
| 2-Hydroxypropionic Acid | 90      | <span>●</span> |
| Acetic Acid             | 100     | <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 Disulfide        | 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 Fuel             | -       | <span>●</span> |
| Diethylene Oxide        | -       | <span>●</span> |
| Ethyl Acetate           | 100     | <span>●</span> |

| Kemikalie                        | Konc.     | Resultat    |
|----------------------------------|-----------|-------------|
| Ethyl Alcohol                    | 96        | <div></div> |
| Ethylene Chloride                | 100       | <div></div> |
| Food Oil                         | -         | <div></div> |
| Formaldehyde (aqueous)           | 40        | <div></div> |
| Formic Acid                      | 10        | <div></div> |
| Frost Protection Agent           | -         | <div></div> |
| Fuel (aromatic free)             | -         | <div></div> |
| Glycerine                        | 100       | <div></div> |
| Glycol                           | 100       | <div></div> |
| Heating Oil                      | -         | <div></div> |
| Heptane                          | 100       | <div></div> |
| Hydrochloric Acid                | 10        | <div></div> |
| Hydrochloric Acid (concentrated) | conc.     | <div></div> |
| Hydrofluoric Acid                | 40        | <div></div> |
| Hydrogen Peroxide                | 10        | <div></div> |
| Hydrogen Sulfide (aqueous)       | -         | <div></div> |
| Isopropyl Alcohol                | 100       | <div></div> |
| Linseed Oil                      | -         | <div></div> |
| Mercurochrome                    | -         | <div></div> |
| Methyl Alcohol                   | 100       | <div></div> |
| Methyl Ethyl Ketone (MEK)        | 100       | <div></div> |
| Methylene Chloride               | 100       | <div></div> |
| Milk                             | -         | <div></div> |
| Mineral Oils (aromatic free)     | -         | <div></div> |
| Nitric Acid                      | 10        | <div></div> |
| Nitric Acid                      | 50        | <div></div> |
| Nitrobenzene                     | -         | <div></div> |
| Oxalic Acid                      | -         | <div></div> |
| Ozone Gas                        | ≤ 0.5 ppm | <div></div> |
| Paraffine Oil                    | 100       | <div></div> |
| Perchloroethylene                | -         | <div></div> |
| Petroleum                        | 100       | <div></div> |
| Petroleum Ether                  | 100       | <div></div> |
| Phenol (aqueous)                 | ca. 9     | <div></div> |
| Phosphoric Acid                  | 50        | <div></div> |

| Kemikalie                  | Konc.  | Resultat |
|----------------------------|--------|----------|
| Potassium Hydroxide liquor | 50     | ●        |
| Premium Fuel               | -      | ●        |
| Propyl Alcohol             | -      | ●        |
| Pyridine                   | -      | ●        |
| Silicone Oil               | -      | ●        |
| Sodium Carbonate (aqueous) | -      | ●        |
| Sodium Chloride (aqueous)  | -      | ●        |
| Sodium Hydrogen Sulfite    | -      | ●        |
| Sodium Hydroxide liquor    | 60     | ●        |
| Sodium Hydroxide liquor    | 15     | ●        |
| Sodium Nitrate (aqueous)   | -      | ●        |
| Sodium Thiosulfate         | -      | ●        |
| Sulfuric Acid              | 96     | ●        |
| Tetrahydrofuran (THF)      | 100    | ●        |
| Toluene                    | 100    | ●        |
| Transformer Oil            | -      | ●        |
| Trichloroethylene          | 100    | ●        |
| Vinegar (standard)         | 5 - 10 | ●        |
| Water                      | -      | ●        |
| Xylene                     | -      | ●        |