



PA6 E FG 110x1000 mm natur

Artikelnr P1001228  
Material PA

1. Tekniskt datablad

| Egenskap                                   | Värde | Enhet | Standard       |
|--------------------------------------------|-------|-------|----------------|
| Density                                    | 1.14  | g/cm³ | ISO 1183       |
| Density                                    | 1.13  | g/cm³ | ISO 1183       |
| Tensile Strength                           | 70    | MPa   | DIN EN ISO 527 |
| Tensile Strength                           | 83    | MPa   | ISO 527        |
| Modulus of elasticity (tensile)            | 3250  | MPa   | ISO 527-2      |
| Modulus of elasticity (tensile)            | 3330  | MPa   | ISO 527        |
| Breakdown Voltage                          | 75    | MPa   | ISO 527-2      |
| Breakdown Voltage                          | 54    | MPa   | ISO 527        |
| Break Elongation                           | 40    | %     | ISO 527-2      |
| Break Elongation                           | 50    | %     | ISO 527        |
| Melting point                              | 220   | °C    | ISO 3146       |
| Melting point                              | 220   | °C    | ISO 3146       |
| Maximal operating temperature (short-term) | 160   | °C    |                |
| Maximal operating temperature (short-term) | 130   | °C    | UL746B         |
| Maximum Operating Temperature              | 90.5  | °C    |                |
| Maximum Operating Temperature              | 85    | °C    |                |
| Minimum temperature                        | -36   | °C    |                |
| Minimum temperature                        | -40   | °C    |                |
| Heat deflection temperature (HDT/A)        | 70    | °C    | ISO 75-2       |
| Heat deflection temperature (HDT/A)        | 75    | °C    | ISO 75-2       |
| Heat deflection temperature (HDT/B)        | 140   | °C    | ISO 75-2       |
| Heat deflection temperature (HDT/B)        | 190   | °C    | ISO 75-2       |
| Vicat softening temperature (VST/B/50)     | 190   | °C    | ISO 306        |
| Dielectric Strength                        | 30    | kV/mm | IEC 60243-1    |
| Dielectric Strength                        | 25    | kV/mm | IEC 60243-1    |

| Egenskap                            | Värde                  | Enhet               | Standard       |
|-------------------------------------|------------------------|---------------------|----------------|
| Volume Resistivity                  | <b>10<sup>13</sup></b> | Ω·cm                | IEC 60093      |
| Volume Resistivity                  | <b>10<sup>12</sup></b> | Ω·cm                | IEC 60093      |
| Dielectric Constant (1 MHz)         | <b>3.8</b>             | -                   | IEC 60250      |
| Dielectric Constant (1 MHz)         | <b>3.7</b>             | -                   | IEC 60250      |
| Dielectric loss factor (1 MHz)      | <b>0.03</b>            | -                   | IEC 60250      |
| Dielectric Constant (100 Hz)        | <b>3.9</b>             | -                   | IEC 60250      |
| Dielectric loss factor (1 MHz)      | <b>0.0</b>             | -                   | IEC 60250      |
| Dielectric loss factor (100 Hz)     | <b>0.0</b>             | -                   | IEC 60250      |
| Flammability Classification (UL 94) | <b>3</b>               |                     | UL 94          |
| Flexural Strength                   | <b>76</b>              | MPa                 | ISO 527-2      |
| Flexural Strength                   | <b>100</b>             | MPa                 | ISO 178        |
| Thermal Conductivity                | <b>0.32</b>            | W/(m·K)             | DIN 52612      |
| Thermal Conductivity                | <b>0.28</b>            | W/(m·K)             | DIN 52612      |
| Surface Resistivity                 | <b>10<sup>13</sup></b> | Ω                   | IEC 60093      |
| Comparative Tracking Index (CTI)    | <b>600</b>             | V                   | IEC 60112      |
| Surface Resistivity                 | <b>10<sup>13</sup></b> | Ω                   | IEC 60093      |
| Comparative Tracking Index (CTI)    | <b>600</b>             | V                   | IEC 60112      |
| Water absorption to saturation      | <b>2.5</b>             | %                   | ISO 62         |
| Water absorption to saturation      | <b>9.5</b>             | %                   | ISO 62         |
| Water Absorption to Saturation      | <b>9</b>               | %                   | ISO 62         |
| Water Absorption to Saturation      | <b>9.5</b>             | %                   | ISO 62         |
| Notched impact strength (Charpy)    | <b>5.5</b>             | kJ/m²               | ISO 179/1eA    |
| Notched impact strength (Charpy)    | <b>7</b>               | kJ/m²               | ISO 179        |
| Thermal Expansion Coefficient       | <b>1.1</b>             | 10 <sup>-4</sup> /K | ISO 11359      |
| Thermal Expansion Coefficient       | <b>0.9</b>             | 10 <sup>-4</sup> /K | ISO 11359      |
| Hardness Shore D                    | <b>82</b>              | ° Shore D           | DIN EN ISO 868 |
| Hardness Shore D                    | <b>80</b>              | ° Shore D           | ISO 868        |
| Ball pressure hardness              | <b>150</b>             | MPa                 | ISO 2039-1     |
| Ball pressure hardness              | <b>155</b>             | MPa                 | ISO 2039       |

## 2. Kemisk beständighet

● Beständig
 ● Delvis beständig
 ● Ej beständig

| Kemikalie   | Konc. | Resultat       |
|-------------|-------|----------------|
| 1,4-Dioxane | 100   | <span>●</span> |

| Kemikalie               | Konc.   | Resultat    |
|-------------------------|---------|-------------|
| 2-Hydroxypropionic Acid | 90      | <div></div> |
| Acetic Acid             | 100     | <div></div> |
| Acetone                 | 100     | <div></div> |
| Ammonia                 | conc.   | <div></div> |
| Ammonium Chloride       | -       | <div></div> |
| Amyl Alcohol            | -       | <div></div> |
| Apple Juice             | -       | <div></div> |
| Benzene                 | -       | <div></div> |
| Bleaching Solution      | 12.5 cl | <div></div> |
| Boric Acid              | 100     | <div></div> |
| Brake Fluid             | -       | <div></div> |
| Butyl Acetate           | -       | <div></div> |
| Calcium Chloride        | -       | <div></div> |
| Carbon Disulfide        | 100     | <div></div> |
| Carbon Tetrachloride    | -       | <div></div> |
| Chlorine (gas)          | 100     | <div></div> |
| Chlorobenzene           | 100     | <div></div> |
| Chloroform              | -       | <div></div> |
| Citric Acid             | 10      | <div></div> |
| Cresol                  | -       | <div></div> |
| Cyclohexanone           | 100     | <div></div> |
| Cyclohexene             | 100     | <div></div> |
| Diesel Fuel             | -       | <div></div> |
| Diethylene Oxide        | -       | <div></div> |
| Ethyl Acetate           | 100     | <div></div> |
| 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> |

| Kemikalie                        | Konc.     | Resultat |
|----------------------------------|-----------|----------|
| Heating Oil                      | -         | ●        |
| 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                   | 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 | ●        |
| Paraffine Oil                    | 100       | ●        |
| Perchloroethylene                | -         | ●        |
| Petroleum                        | 100       | ●        |
| Petroleum Ether                  | 100       | ●        |
| Phenol (aqueous)                 | ca. 9     | ●        |
| Phosphoric Acid                  | 50        | ●        |
| Potassium Hydroxide liquor       | 50        | ●        |
| Premium Fuel                     | -         | ●        |
| Propyl Alcohol                   | -         | ●        |
| Pyridine                         | -         | ●        |
| Silicone Oil                     | -         | ●        |
| Sodium Carbonate (aqueous)       | -         | ●        |
| Sodium Chloride (aqueous)        | -         | ●        |
| Sodium Hydrogen Sulfite          | -         | ●        |

| Kemikalie                | Konc.  | Resultat |
|--------------------------|--------|----------|
| 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                   | -      | ●        |