



PA6.6 FG 25x3000 mm natur

Artikelnr P1002349  
Material PA

1. Tekniskt datablad

| Egenskap                                   | Värde             | Enhet               | Standard    |
|--------------------------------------------|-------------------|---------------------|-------------|
| Density                                    | 1.14              | g/cm³               | ISO 1183    |
| Tensile Strength                           | 80                | MPa                 | ISO 527     |
| Modulus of elasticity (tensile)            | 3285              | MPa                 | ISO 527-2   |
| Break Elongation                           | 55                | %                   | ISO 527-2   |
| Melting point                              | 260               | °C                  | ISO 3146    |
| Maximal operating temperature (short-term) | 140               | °C                  | UL746B      |
| Maximum Operating Temperature              | 95                | °C                  |             |
| Minimum temperature                        | -30               | °C                  |             |
| Heat deflection temperature (HDT/A)        | 92.5              | °C                  | ISO 75-2    |
| Heat deflection temperature (HDT/B)        | 200               | °C                  | ISO 75-2    |
| Dielectric Strength                        | 28.5              | kV/mm               | IEC 60243-1 |
| Volume Resistivity                         | ~10 <sup>14</sup> | Ω·cm                | IEC 60093   |
| Dielectric Constant (1 MHz)                | 3.45              | -                   | IEC 60250   |
| Dielectric Constant (100 Hz)               | 3.8               | -                   | IEC 60250   |
| Dielectric loss factor (1 MHz)             | 0.11              | -                   | IEC 60250   |
| Dielectric loss factor (100 Hz)            | 0.0               | -                   | IEC 60250   |
| Flexural Strength                          | 1455              | MPa                 | ISO 178     |
| 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             | 5.45              | %                   | ISO 62      |
| Water Absorption to Saturation             | 8.75              | %                   | ISO 62      |
| Notched impact strength (Charpy)           | 6                 | kJ/m²               | ISO 179/1eA |
| Thermal Expansion Coefficient              | 0.8               | 10 <sup>-4</sup> /K | DIN 11359   |
| Hardness Shore D                           | 83                | ° Shore D           | ISO 868     |

| Egenskap               | Värde | Enhet | Standard   |
|------------------------|-------|-------|------------|
| Ball pressure hardness | 160   | 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> |
| Ethyl Alcohol           | 96      | <span>●</span> |
| Ethylene Chloride       | 100     | <span>●</span> |
| Food Oil                | -       | <span>●</span> |

| Kemikalie                        | Konc.     | Resultat |
|----------------------------------|-----------|----------|
| Formaldehyde (aqueous)           | 40        | ●        |
| Formic Acid                      | 10        | ●        |
| Frost Protection Agent           | -         | ●        |
| Fuel (aromatic free)             | -         | ●        |
| Glycerine                        | 100       | ●        |
| Glycol                           | 100       | ●        |
| 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                   | -         | ●        |

| Kemikalie                  | Konc.  | Resultat    |
|----------------------------|--------|-------------|
| Pyridine                   | -      | <div></div> |
| Silicone Oil               | -      | <div></div> |
| Sodium Carbonate (aqueous) | -      | <div></div> |
| Sodium Chloride (aqueous)  | -      | <div></div> |
| Sodium Hydrogen Sulfite    | -      | <div></div> |
| Sodium Hydroxide liquor    | 60     | <div></div> |
| Sodium Hydroxide liquor    | 15     | <div></div> |
| Sodium Nitrate (aqueous)   | -      | <div></div> |
| Sodium Thiosulfate         | -      | <div></div> |
| Sulfuric Acid              | 96     | <div></div> |
| Tetrahydrofuran (THF)      | 100    | <div></div> |
| Toluene                    | 100    | <div></div> |
| Transformer Oil            | -      | <div></div> |
| Trichloroethylene          | 100    | <div></div> |
| Vinegar (standard)         | 5 - 10 | <div></div> |
| Water                      | -      | <div></div> |
| Xylene                     | -      | <div></div> |