



POM C 75x3000 mm natur

Artikelnr P1005087  
Material POM

1. Tekniskt datablad

| Egenskap                                   | Värde            | Enhet   | Standard         |
|--------------------------------------------|------------------|---------|------------------|
| Density                                    | 1.24             | g/cm³   | ASTM D792        |
| Tensile Strength                           | 51               | MPa     | DIN EN ISO 527-2 |
| Modulus of elasticity (tensile)            | 1200             | MPa     | ASTM D790        |
| Breakdown Voltage                          | 76.5             | MPa     | ISO 527          |
| Break Elongation                           | 300              | %       | ASTM D638        |
| Melting point                              | 222              | °C      | ISO 3146         |
| Maximal operating temperature (short-term) | 129              | °C      | UL746B           |
| Maximum Operating Temperature              | 90               | °C      |                  |
| Minimum temperature                        | -46.25           | °C      |                  |
| Heat deflection temperature (HDT/A)        | 105              | °C      | ASTM D648        |
| Heat deflection temperature (HDT/B)        | 155              | °C      | ISO 75           |
| Vicat softening temperature (VST/B/50)     | 50               | °C      | ISO 306          |
| Dielectric Strength                        | 85               | kV/mm   | IEC 60243-1      |
| Volume Resistivity                         | 10 <sup>12</sup> | Ω       | IEC 60093        |
| Dielectric Constant (1 MHz)                | 3.7              | -       | IEC 60250        |
| Dielectric loss factor (1 MHz)             | 0.0              | -       | IEC 60250        |
| Dielectric loss factor (100 Hz)            | 0.0              | -       | IEC 60250        |
| Flammability Classification (UL 94)        | 60695            |         | UL 94            |
| Flexural Strength                          | 58               | MPa     | ASTM D638        |
| Thermal Conductivity                       | 0.3              | 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             | 2.2              | %       | ASTM D955        |
| Water Absorption to Saturation             | 0.5              | %       | ASTM D570        |
| Notched impact strength (Charpy)           | 6                | kJ/m²   | DIN EN ISO 179-1 |

| Egenskap                      | Värde | Enhet               | Standard    |
|-------------------------------|-------|---------------------|-------------|
| Impact Resistance (Charpy)    | 19    | kJ/m²               | ISO 179/1eU |
| Thermal Expansion Coefficient | 0.4   | 10 <sup>-4</sup> /K | ISO 11359   |
| Hardness Shore D              | 83    | ° Shore D           | ISO 868     |
| Ball pressure hardness        | 230   | MPa                 | ISO 2039-1  |

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> |
| 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 disulphide                     | 100%    | <span>●</span> |
| Carbon tetrachloride                  | -       | <span>●</span> |
| Chlorobenzene                         | 100%    | <span>●</span> |
| Chloroform                            | -       | <span>●</span> |
| Citric acid                           | 10%     | <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> |
| Food oil                              | -       | <span>●</span> |

| Kemikalie                        | Konc.    | Resultat |
|----------------------------------|----------|----------|
| Formaldehyde, aqueous            | 40%      | ●        |
| Formic acid                      | 10%      | ●        |
| Frost protection agent           | -        | ●        |
| Fuel oil                         | -        | ●        |
| Fuel, aromatic free              | -        | ●        |
| 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%)                | 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                   | -        | ●        |

| Kemikalie                       | Konc. | Resultat |
|---------------------------------|-------|----------|
| Silicone oil                    | -     | ●        |
| Sodium carbonate, aqueous       | -     | ●        |
| Sodium chloride, aqueous        | -     | ●        |
| Sodium hydrogen sulfite         | -     | ●        |
| Sodium hydroxide solution (15%) | 15%   | ●        |
| Sodium hydroxide solution (60%) | 60%   | ●        |
| Sodium nitrate, aqueous         | -     | ●        |
| Sulphuric acid                  | 96%   | ●        |
| Tetrahydrofuran (THF)           | 100%  | ●        |
| Toluene                         | 100%  | ●        |
| Transformer oil                 | -     | ●        |
| Trichloroethylene               | 100%  | ●        |
| Vinegar, standard               | 5-10% | ●        |
| Water                           | -     | ●        |
| Xylene                          | -     | ●        |