



# POM C 1000x1000x100 mm natur

Artikelnr P1005472

## 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                         | 10¹¹   | Ω·m     | 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                        | 10¹¹   | Ω·m     | 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 |
| Impact Resistance (Charpy)                 | 19     | kJ/m²   | ISO 179/1eU      |

| Egenskap                      | V rde | Enhet      | Standard   |
|-------------------------------|-------|------------|------------|
| Thermal Expansion Coefficient | 0.4   | 10   /K    | ISO 11359  |
| Hardness Shore D              | 83    |    Shore D | ISO 868    |
| Ball pressure hardness        | 230   | MPa        | ISO 2039-1 |

## 2. Kemisk best ndighet

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| Kemikalie                             | Konc.   | Resultat |
|---------------------------------------|---------|----------|
| 1,4-Dioxane                           | 100%    | ●        |
| 2-Hydroxypropionic acid (lactic acid) | 90%     | ●        |
| Acetic acid                           | 100%    | ●        |
| Acetone                               | 100%    | ●        |
| Ammonia                               | conc.   | ●        |
| Ammonium chloride                     |         | ●        |
| Amyl alcohol                          |         | ●        |
| Apple juice                           |         | ●        |
| Benzene                               |         | ●        |
| Bleaching solution                    | 12.5 cl | ●        |
| Boric acid                            | 100%    | ●        |
| Brake fluid                           |         | ●        |
| Butyl acetate                         |         | ●        |
| Calcium chloride                      |         | ●        |
| Carbon disulphide                     | 100%    | ●        |
| Carbon tetrachloride                  |         | ●        |
| Chlorobenzene                         | 100%    | ●        |
| Chloroform                            |         | ●        |
| Citric acid                           | 10%     | ●        |
| Cyclohexanone                         | 100%    | ●        |
| Cyclohexene                           | 100%    | ●        |
| Diesel                                |         | ●        |
| Diethylene oxide                      |         | ●        |
| Ethyl acetate                         | 100%    | ●        |
| Ethyl alcohol (ethanol)               | 96%     | ●        |
| Food oil                              |         | ●        |
| Formaldehyde, aqueous                 | 40%     | ●        |
| Formic acid                           | 10%     | ●        |

| Kemikalie                        | Konc.      | Resultat    |
|----------------------------------|------------|-------------|
| Frost protection agent           | â€”        | <div></div> |
| Fuel oil                         | â€”        | <div></div> |
| Fuel, aromatic free              | â€”        | <div></div> |
| Glycerine                        | 100%       | <div></div> |
| Glycol                           | 100%       | <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        | â€”        | <div></div> |
| Isopropyl alcohol                | 100%       | <div></div> |
| Linseed oil                      | â€”        | <div></div> |
| Mercurochrome                    | â€”        | <div></div> |
| Methyl alcohol (methanol)        | 100%       | <div></div> |
| Methyl ethyl ketone (MEK)        | 100%       | <div></div> |
| Methylene chloride               | 100%       | <div></div> |
| Milk                             | â€”        | <div></div> |
| Mineral oils (aromatic free)     | â€”        | <div></div> |
| Nitric acid                      | 10%        | <div></div> |
| Nitric acid (50%)                | 50%        | <div></div> |
| Nitrobenzene                     | â€”        | <div></div> |
| Oxalic acid                      | â€”        | <div></div> |
| Ozone (gas)                      | â‰‰0.5 ppm | <div></div> |
| Paraffin oil                     | 100%       | <div></div> |
| Perchloroethylene                | â€”        | <div></div> |
| Petroleum                        | 100%       | <div></div> |
| Petroleum ether                  | 100%       | <div></div> |
| Phenol, aqueous                  | ca. 9%     | <div></div> |
| Phosphoric acid                  | 50%        | <div></div> |
| Potassium hydroxide solution     | 50%        | <div></div> |
| Premium fuel                     | â€”        | <div></div> |
| Propyl alcohol                   | â€”        | <div></div> |
| Silicone oil                     | â€”        | <div></div> |

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