



# POM C 80x3000 mm natur

Artikelnr P1005088

## 1. Tekniskt datablad

| Egenskap                                   | Värde                | Enhet             | Standard         |
|--------------------------------------------|----------------------|-------------------|------------------|
| Density                                    | 1.24                 | g/cm <sup>3</sup> | 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>11</sup> Ω·m | 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                        | 10 <sup>11</sup> Ω·m | 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/m <sup>2</sup> | DIN EN ISO 179-1 |
| Impact Resistance (Charpy)                 | 19                   | kJ/m <sup>2</sup> | 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€”        | ●        |
| Fuel oil                         | â€”        | ●        |
| Fuel, aromatic free              | â€”        | ●        |
| Glycerine                        | 100%       | ●        |
| Glycol                           | 100%       | ●        |
| Heptane                          | 100%       | ●        |
| Hydrochloric acid                | 10%        | ●        |
| Hydrochloric acid (concentrated) | conc.      | ●        |
| Hydrofluoric acid                | 40%        | ●        |
| Hydrogen peroxide                | 10%        | ●        |
| Hydrogen sulfide, aqueous        | â€”        | ●        |
| Isopropyl alcohol                | 100%       | ●        |
| Linseed oil                      | â€”        | ●        |
| Mercurochrome                    | â€”        | ●        |
| Methyl alcohol (methanol)        | 100%       | ●        |
| Methyl ethyl ketone (MEK)        | 100%       | ●        |
| Methylene chloride               | 100%       | ●        |
| Milk                             | â€”        | ●        |
| Mineral oils (aromatic free)     | â€”        | ●        |
| Nitric acid                      | 10%        | ●        |
| Nitric acid (50%)                | 50%        | ●        |
| Nitrobenzene                     | â€”        | ●        |
| Oxalic acid                      | â€”        | ●        |
| Ozone (gas)                      | â‰¤0.5 ppm | ●        |
| Paraffin oil                     | 100%       | ●        |
| Perchloroethylene                | â€”        | ●        |
| Petroleum                        | 100%       | ●        |
| Petroleum ether                  | 100%       | ●        |
| Phenol, aqueous                  | ca. 9%     | ●        |
| Phosphoric acid                  | 50%        | ●        |
| Potassium hydroxide solution     | 50%        | ●        |
| Premium fuel                     | â€”        | ●        |
| Propyl alcohol                   | â€”        | ●        |
| Silicone oil                     | â€”        | ●        |

| 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€”   | ●        |