



## POM C FG 3000x500x45 mm navy blue

Artikelnummer: P1006704

### 1. Tekniskt Datablad (TDS)

#### Density & Weight

| PROPERTY | VALUE | UNIT              | STANDARD  |
|----------|-------|-------------------|-----------|
| Density  | 1.24  | g/cm <sup>3</sup> | ASTM D792 |

#### Moisture Absorption

| PROPERTY                       | VALUE | UNIT | STANDARD  |
|--------------------------------|-------|------|-----------|
| Water absorption to saturation | 2.2   | %    | ASTM D955 |
| Water Absorption to Saturation | 0.5   | %    | ASTM D570 |

#### Tensile Properties

| PROPERTY                        | VALUE | UNIT | STANDARD         |
|---------------------------------|-------|------|------------------|
| 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        |

#### Flexural Properties

| PROPERTY          | VALUE | UNIT | STANDARD  |
|-------------------|-------|------|-----------|
| Flexural Strength | 58    | MPa  | ASTM D638 |

#### Impact Resistance

| PROPERTY                         | VALUE | UNIT              | STANDARD         |
|----------------------------------|-------|-------------------|------------------|
| Notched impact strength (Charpy) | 6     | kJ/m <sup>2</sup> | DIN EN ISO 179-1 |

| PROPERTY                   | VALUE | UNIT              | STANDARD    |
|----------------------------|-------|-------------------|-------------|
| Impact Resistance (Charpy) | 19    | kJ/m <sup>2</sup> | ISO 179/1eU |

#### Hardness

| PROPERTY               | VALUE | UNIT      | STANDARD   |
|------------------------|-------|-----------|------------|
| Hardness Shore D       | 83    | ° Shore D | ISO 868    |
| Ball pressure hardness | 230   | MPa       | ISO 2039-1 |

#### Temperature Limits

| PROPERTY                                   | VALUE    | UNIT | STANDARD  |
|--------------------------------------------|----------|------|-----------|
| Melting point                              | 222      | °C   | ISO 3146  |
| Maximal operating temperature (short-term) | 129.1667 | °C   | UL746B    |
| Maximum Operating Temperature              | 90.2778  | °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   |

#### Thermal Conductivity

| PROPERTY             | VALUE | UNIT    | STANDARD  |
|----------------------|-------|---------|-----------|
| Thermal Conductivity | 0.3   | W/(m·K) | DIN 52612 |

#### Thermal Expansion

| PROPERTY                      | VALUE | UNIT                | STANDARD  |
|-------------------------------|-------|---------------------|-----------|
| Thermal Expansion Coefficient | 0.4   | 10 <sup>-4</sup> /K | ISO 11359 |

#### Insulation Properties

| PROPERTY                        | VALUE            | UNIT  | STANDARD    |
|---------------------------------|------------------|-------|-------------|
| Dielectric Strength             | 85               | kV/mm | IEC 60243-1 |
| Volume Resistivity              | 10 <sup>12</sup> | Ω     | IEC 60093   |
| Dielectric Constant (1 MHz)     | 3.6889           | -     | IEC 60250   |
| Dielectric loss factor (1 MHz)  | 0.0053           | -     | IEC 60250   |
| Dielectric loss factor (100 Hz) | 0.002            | -     | IEC 60250   |

#### Static spread

| PROPERTY                         | VALUE            | UNIT | STANDARD  |
|----------------------------------|------------------|------|-----------|
| Surface Resistivity              | 10 <sup>13</sup> | Ω    | IEC 60093 |
| Comparative Tracking Index (CTI) | 600              | V    | IEC 60112 |

#### Fire Classification

| PROPERTY                            | VALUE | UNIT | STANDARD |
|-------------------------------------|-------|------|----------|
| Flammability Classification (UL 94) | 60695 |      | UL 94    |

## 2. Säkerhetsinformation (MSDS)

**Classification:** Not classified as hazardous (CLP/GHS) i fast form.

**Handling:** Inga särskilda åtgärder vid normal hantering. Vid termisk bearbetning: God ventilation krävs — formaldehyd kan frigöras vid >200 °C.

**Storage:** Förvaras torrt och svalt. Skyddas mot syror. 5-40 °C.

**Brandrisker:** Vid brand/termisk nedbrytning: Formaldehyd (CH<sub>2</sub>O), CO, CO<sub>2</sub>. Formaldehyd är hälsoskadligt. Använd andningsskydd.

## 3. Chemical Resistance

**A** Utmärkt **B** God **C** Begränsad **D** Ej rekommenderad

| CHEMICAL                              | BETYG               | CONC.    | TEMP. |
|---------------------------------------|---------------------|----------|-------|
| 1,4-Dioxane                           | partially_resistant | 100%%    |       |
| 2-Hydroxypropionic acid (lactic acid) | resistant           | 90%%     |       |
| Acetic acid                           | partially_resistant | 100%%    |       |
| Acetone                               | resistant           | 100%%    |       |
| Ammonia                               | resistant           | conc.%   |       |
| Ammonium chloride                     | partially_resistant |          |       |
| Amyl alcohol                          | resistant           |          |       |
| Apple juice                           | resistant           |          |       |
| Benzene                               | partially_resistant |          |       |
| Bleaching solution                    | not_resistant       | 12.5 cl% |       |
| Boric acid                            | partially_resistant | 100%%    |       |
| Brake fluid                           | resistant           |          |       |
| Butyl acetate                         | resistant           |          |       |
| Calcium chloride                      | resistant           |          |       |
| Carbon disulphide                     | resistant           | 100%%    |       |

| CHEMICAL                         | BETYG               | CONC.  | TEMP. |
|----------------------------------|---------------------|--------|-------|
| Carbon tetrachloride             | resistant           |        |       |
| Chlorobenzene                    | partially_resistant | 100%%  |       |
| Chloroform                       | not_resistant       |        |       |
| Citric acid                      | partially_resistant | 10%%   |       |
| Cyclohexanone                    | resistant           | 100%%  |       |
| Cyclohexene                      | resistant           | 100%%  |       |
| Diesel                           | resistant           |        |       |
| Diethylene oxide                 | resistant           |        |       |
| Ethyl acetate                    | partially_resistant | 100%%  |       |
| Ethyl alcohol (ethanol)          | resistant           | 96%%   |       |
| Food oil                         | resistant           |        |       |
| Formaldehyde, aqueous            | resistant           | 40%%   |       |
| Formic acid                      | resistant           | 10%%   |       |
| Frost protection agent           | resistant           |        |       |
| Fuel oil                         | resistant           |        |       |
| Fuel, aromatic free              | resistant           |        |       |
| Glycerine                        | resistant           | 100%%  |       |
| Glycol                           | resistant           | 100%%  |       |
| Heptane                          | resistant           | 100%%  |       |
| Hydrochloric acid                | not_resistant       | 10%%   |       |
| Hydrochloric acid (concentrated) | not_resistant       | conc.% |       |
| Hydrofluoric acid                | not_resistant       | 40%%   |       |
| Hydrogen peroxide                | resistant           | 10%%   |       |
| Hydrogen sulfide, aqueous        | resistant           |        |       |
| Isopropyl alcohol                | resistant           | 100%%  |       |
| Linseed oil                      | resistant           |        |       |
| Mercurochrome                    | not_resistant       |        |       |
| Methyl alcohol (methanol)        | resistant           | 100%%  |       |
| Methyl ethyl ketone (MEK)        | partially_resistant | 100%%  |       |
| Methylene chloride               | not_resistant       | 100%%  |       |
| Milk                             | resistant           |        |       |

| CHEMICAL                        | BETYG               | CONC.     | TEMP. |
|---------------------------------|---------------------|-----------|-------|
| Mineral oils (aromatic free)    | resistant           |           |       |
| Nitric acid                     | not_resistant       | 10%%      |       |
| Nitric acid (50%)               | not_resistant       | 50%%      |       |
| Nitrobenzene                    | partially_resistant |           |       |
| Oxalic acid                     | not_resistant       |           |       |
| Ozone (gas)                     | not_resistant       | ≤0.5 ppm% |       |
| Paraffin oil                    | resistant           | 100%%     |       |
| Perchloroethylene               | resistant           |           |       |
| Petroleum                       | resistant           | 100%%     |       |
| Petroleum ether                 | resistant           | 100%%     |       |
| Phenol, aqueous                 | not_resistant       | ca. 9%%   |       |
| Phosphoric acid                 | not_resistant       | 50%%      |       |
| Potassium hydroxide solution    | partially_resistant | 50%%      |       |
| Premium fuel                    | resistant           |           |       |
| Propyl alcohol                  | resistant           |           |       |
| Silicone oil                    | resistant           |           |       |
| Sodium carbonate, aqueous       | resistant           |           |       |
| Sodium chloride, aqueous        | resistant           |           |       |
| Sodium hydrogen sulfite         | not_resistant       |           |       |
| Sodium hydroxide solution (15%) | resistant           | 15%%      |       |
| Sodium hydroxide solution (60%) | partially_resistant | 60%%      |       |
| Sodium nitrate, aqueous         | resistant           |           |       |
| Sulphuric acid                  | not_resistant       | 96%%      |       |
| Tetrahydrofuran (THF)           | partially_resistant | 100%%     |       |
| Toluene                         | resistant           | 100%%     |       |
| Transformer oil                 | resistant           |           |       |
| Trichloroethylene               | partially_resistant | 100%%     |       |
| Vinegar, standard               | resistant           | 5-10%%    |       |
| Water                           | resistant           |           |       |
| Xylene                          | resistant           |           |       |



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