



# PEEK 180/90x3000 mm black

Artikelnr P1500405

## 1. Tekniskt datablad

| Egenskap                                   | VÄrde                 | Enhet             | Standard    |
|--------------------------------------------|-----------------------|-------------------|-------------|
| Density                                    | 1.31                  | g/cm <sup>3</sup> | ISO 1183    |
| Tensile Strength                           | 112                   | MPa               | ISO527-2    |
| Modulus of elasticity (tensile)            | 4400                  | MPa               | ISO 527-2   |
| Breakdown Voltage                          | 67                    | MPa               | ISO 527     |
| Break Elongation                           | 20                    | %                 | ISO 527-2   |
| Melting point                              | 340                   | °C                | ISO 3146    |
| Maximal operating temperature (short-term) | 291                   | °C                | UL746B      |
| Maximum Operating Temperature              | 245                   | °C                |             |
| Minimum temperature                        | -35                   | °C                |             |
| Heat deflection temperature (HDT/A)        | 160                   | °C                | ISO 75-2    |
| Heat deflection temperature (HDT/B)        | 240                   | °C                | ISO 75      |
| Vicat softening temperature (VST/B/50)     | 50                    | °C                | ISO 306     |
| Dielectric Strength                        | 24                    | kV/mm             | IEC 60243-1 |
| Volume Resistivity                         | 10 <sup>14</sup> Ω·cm | Ω·cm              | IEC 60093   |
| Dielectric Constant (1 MHz)                | 3.6                   | -                 | IEC 60250   |
| Dielectric Constant (100 Hz)               | 3.2                   | -                 | IEC 60250   |
| Dielectric loss factor (1 MHz)             | 0.0                   | -                 | IEC 60250   |
| Dielectric loss factor (100 Hz)            | 0.0                   | -                 | IEC 60250   |
| Flammability Classification (UL 94)        | 0                     |                   | UL 94       |
| Flexural Strength                          | 110                   | MPa               | ISO 527-2   |
| Thermal Conductivity                       | 0.25                  | W/(m·K)           | DIN 52612   |
| Surface Resistivity                        | 10 <sup>14</sup> Ω    | Ω                 | IEC 60093   |
| Comparative Tracking Index (CTI)           | 150                   | V                 | IEC 60112   |
| Water absorption to saturation             | 0.2                   | %                 | ISO 62      |
| Water Absorption to Saturation             | 0.45                  | %                 | ISO 62      |
| Notched impact strength (Charpy)           | 3.5                   | kJ/m <sup>2</sup> | ISO 179/1eA |
| Impact Resistance (Charpy)                 | 92                    | kJ/m <sup>2</sup> | ISO179/1eU  |

| Egenskap                      | V rde | Enhet      | Standard       |
|-------------------------------|-------|------------|----------------|
| Thermal Expansion Coefficient | 0.5   | 10   /K    | DIN 11359      |
| Hardness Shore D              | 90    |    Shore D | DIN EN ISO 868 |
| Ball pressure hardness        | 230   | MPa        | ISO 2039-1     |

2. Kemisk best ndighet

● Best ndig   ● Delvis best ndig   ● Ej best ndig

| Kemikalie                             | Konc. | Resultat |
|---------------------------------------|-------|----------|
| 1,4-Dioxane                           | 100   | ●        |
| 2-Hydroxypropionic acid (lactic acid) | 90    | ●        |
| Acetic acid                           | 100   | ●        |
| Acetone                               | 100   | ●        |
| Ammonia                               |       | ●        |
| Ammonium chloride                     |       | ●        |
| Amyl alcohol                          |       | ●        |
| Apple juice                           |       | ●        |
| Benzene                               |       | ●        |
| Boric acid                            | 100   | ●        |
| Brake fluid                           |       | ●        |
| Butyl acetate                         |       | ●        |
| Calcium chloride                      |       |          |
| Carbon tetrachloride                  |       |          |
| Chlorine (gas)                        | 100   |          |
| Chlorobenzene                         | 100   |          |
| Chloroform                            |       |          |
| Citric acid                           | 10    |          |
| Cyclohexanone                         | 100   |          |
| Cyclohexene                           | 100   |          |
| Diesel                                |       |          |
| Diethylene oxide                      |       |          |
| Ethyl acetate                         | 100   |          |
| Ethyl alcohol (ethanol)               | 96    |          |
| Ethylene chloride                     | 100   |          |
| Food oil                              |       |          |

| Kemikalie                        | Konc. | Resultat    |
|----------------------------------|-------|-------------|
| Formaldehyde (aqueous)           | 40    | <div></div> |
| Formic acid                      | 10    | <div></div> |
| 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) | â€”   | <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    | <div></div> |
| Nitrobenzene                     | â€”   | <div></div> |
| Oxalic acid                      | â€”   | <div></div> |
| Ozone (gas)                      | â€”   | <div></div> |
| Paraffin oil                     | 100   | <div></div> |
| Perchloroethylene                | â€”   | <div></div> |
| Petroleum                        | 100   | <div></div> |
| Petroleum ether                  | 100   | <div></div> |
| Phenol (aqueous)                 | 9     | <div></div> |
| Phosphoric acid                  | 50    | <div></div> |
| Potassium hydroxide solution     | 50    | <div></div> |
| Premium fuel                     | â€”   | <div></div> |
| Propyl alcohol                   | â€”   | <div></div> |

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