

## PEEK Mod 90x2000 mm negro

Nº artículo P1501071

## 1. Ficha técnica

| Propiedad                                     | Valor            | Unidad              | Norma de ensayo |
|-----------------------------------------------|------------------|---------------------|-----------------|
| Densidad                                      | 1.31             | g/cm <sup>3</sup>   | ISO 1183        |
| Absorción de agua hasta la saturación         | 0.2              | %                   | ISO 62          |
| Absorción de agua hasta la saturación         | 0.45             | %                   | ISO 62          |
| Límite de resistencia a la tracción           | 112              | MPa                 | ISO527-2        |
| Módulo de elasticidad (tracción)              | 4400             | MPa                 | ISO 527-2       |
| Resistencia a la tensión                      | 67               | MPa                 | ISO 527         |
| Deformación a la rotura                       | 20               | %                   | ISO 527-2       |
| Resistencia a la flexión                      | 110              | MPa                 | ISO 527-2       |
| Resistencia al impacto con entalla (Charpy)   | 3.5              | kJ/m <sup>2</sup>   | ISO 179/1eA     |
| Resistencia al impacto (Charpy)               | 92               | kJ/m <sup>2</sup>   | ISO179/1eU      |
| Dureza Shore D                                | 90               | ° Shore D           | DIN EN ISO 868  |
| Dureza a la presión de bala                   | 230              | MPa                 | ISO 2039-1      |
| Punto de fusión                               | 340              | °C                  | ISO 3146        |
| Temperatura de servicio máxima (corto plazo)  | 291              | °C                  | UL746B          |
| Temperatura de funcionamiento máxima          | 245              | °C                  |                 |
| Temperatura mínima                            | -35              | °C                  |                 |
| Deformación térmica (HDT/A)                   | 160              | °C                  | ISO 75-2        |
| Deformación térmica (HDT/B)                   | 240              | °C                  | ISO 75          |
| Temperatura de ablandamiento Vicat (VST/B/50) | 50               | °C                  | ISO 306         |
| Conductividad térmica                         | 0.25             | W/(m·K)             | DIN 52612       |
| Coefficiente de expansión térmica             | 0.5              | 10 <sup>-4</sup> /K | DIN 11359       |
| Fuerza dieléctrica                            | 24               | kV/mm               | IEC 60243-1     |
| Resistividad volumétrica                      | 10 <sup>14</sup> | Ω·cm                | IEC 60093       |
| Constante dieléctrica (1 MHz)                 | 3.6              | -                   | IEC 60250       |
| Constante dieléctrica (100 Hz)                | 3.2              | -                   | IEC 60250       |

| Propiedad                                     | Valor            | Unidad | Norma de ensayo |
|-----------------------------------------------|------------------|--------|-----------------|
| Factor de pérdida dieléctrica (1 MHz)         | 0.0              | -      | IEC 60250       |
| Factor de pérdida dieléctrica (100 Hz)        | 0.0              | -      | IEC 60250       |
| Resistencia superficial                       | 10 <sup>13</sup> | Ω      | IEC 60093       |
| Índice de seguimiento comparativo (CTI)       | 150              | V      | IEC 60112       |
| Clasificación de resistencia al fuego (UL 94) | 0                |        | UL 94           |

## 2. Resistencia química

● Resistente    ● Parcialmente resistente    ● No resistente

| Sustancia química                     | Concentración | Resist. |
|---------------------------------------|---------------|---------|
| 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           | ●       |

| Sustancia química                | Concentración | Resist.     |
|----------------------------------|---------------|-------------|
| Ethyl alcohol (ethanol)          | 96            | <div></div> |
| Ethylene chloride                | 100           | <div></div> |
| Food oil                         | —             | <div></div> |
| Formaldehyde (aqueous)           | 40            | <div></div> |
| Formic acid                      | 10            | <div></div> |
| Frost protection agent           | —             | <div></div> |
| Fuel oil                         | —             | <div></div> |
| Fuel, aromatic free              | —             | <div></div> |
| Glycerine                        | 100           | <div></div> |
| Glycol                           | 100           | <div></div> |
| Heptane                          | 100           | <div></div> |
| Hydrochloric acid                | 10            | <div></div> |
| Hydrochloric acid (concentrated) | —             | <div></div> |
| Hydrofluoric acid                | 40            | <div></div> |
| Hydrogen peroxide                | 10            | <div></div> |
| Hydrogen sulfide (aqueous)       | —             | <div></div> |
| Isopropyl alcohol                | 100           | <div></div> |
| Linseed oil                      | —             | <div></div> |
| Mercurochrome                    | —             | <div></div> |
| Methyl alcohol (methanol)        | 100           | <div></div> |
| Methyl ethyl ketone (MEK)        | 100           | <div></div> |
| Methylene chloride               | 100           | <div></div> |
| Milk                             | —             | <div></div> |
| Mineral oils (aromatic free)     | —             | <div></div> |
| Nitric acid                      | 10            | <div></div> |
| Nitric acid                      | 50            | <div></div> |
| Nitrobenzene                     | —             | <div></div> |
| Oxalic acid                      | —             | <div></div> |
| Ozone (gas)                      | —             | <div></div> |
| Paraffin oil                     | 100           | <div></div> |
| Perchloroethylene                | —             | <div></div> |
| Petroleum                        | 100           | <div></div> |

| Sustancia química                        | Concentración | Resist. |
|------------------------------------------|---------------|---------|
| Petroleum ether                          | 100           | ●       |
| Phenol (aqueous)                         | 9             | ●       |
| Phosphoric acid                          | 50            | ●       |
| Potassium hydroxide solution             | 50            | ●       |
| Premium fuel                             | —             | ●       |
| Propyl alcohol                           | —             | ●       |
| Pyridine                                 | —             | ●       |
| Silicone oil                             | —             | ●       |
| Sodium carbonate (aqueous)               | —             | ●       |
| Sodium chloride (aqueous)                | —             | ●       |
| Sodium hydrogen sulfite                  | —             | ●       |
| Sodium hydroxide solution (caustic soda) | 60            | ●       |
| Sodium hydroxide solution (caustic soda) | 15            | ●       |
| Sodium nitrate (aqueous)                 | —             | ●       |
| Sodium thiosulfate                       | —             | ●       |
| Sulphuric acid                           | 96            | ●       |
| Tetrahydrofuran (THF)                    | 100           | ●       |
| Toluene                                  | 100           | ●       |
| Transformer oil                          | —             | ●       |
| Trichloroethylene                        | 100           | ●       |
| Vinegar (standard)                       | 5-10          | ●       |
| Water                                    | —             | ●       |
| Xylene                                   | —             | ●       |