



PMMA E 3050x2050x3 mm opaali-valkoinen 45%

Artikelnr P1200695  
 Material PMMA

1. Tekniskt datablad

| Egenskap                                      | Värde            | Enhet   | Standard    |
|-----------------------------------------------|------------------|---------|-------------|
| Tiheys                                        | 1.19             | g/cm³   | ISO 1183    |
| Venymisrajan jännitys                         | 72               | MPa     | ISO 527     |
| Joustavuusmoduli (vetolujuus)                 | 3300             | MPa     | ISO 527-2   |
| Murtolujuus                                   | 70               | MPa     | ISO 527-2   |
| Murtovenymä                                   | 5                | %       | ISO 527-2   |
| Sulamispiste                                  | 160              | °C      | ISO 3146    |
| Maksimaalinen käyttölämpötila (lyhytaikainen) | 107.5            | °C      | UL746B      |
| Maksimi käyttölämpötila                       | 75               | °C      |             |
| Alin lämpötila                                | -40              | °C      |             |
| Lämpökäyrä (HDT/A)                            | 95               | °C      | ISO 75      |
| Lämpökäyrä (HDT/B)                            | 100              | °C      | ISO 75      |
| Vicat-pehmenemislämpötila (VST/B/50)          | 103              | °C      | ISO 306     |
| Dielektrinen voimakkuus                       | 30               | kV/mm   | IEC 60243-1 |
| Tilavuusresistanssi                           | 10 <sup>15</sup> | Ω·cm    | IEC 60093   |
| Dielektrinen vakio (1 MHz)                    | 1                | -       | IEC 60250   |
| Dielektrinen vakio (100 Hz)                   | 2.7              | -       | DIN 53483-2 |
| Dielektrinen hajoamiskerroin (1 MHz)          | 0.03             | -       | IEC 60250   |
| Dielektrinen hajoamiskerroin (100 Hz)         | 0.06             | -       | DIN 53483-2 |
| Taivutuslujuus                                | 75               | MPa     | ISO 527-2   |
| Lämmönjohtavuus                               | 0.19             | W/(m·K) | DIN 52612   |
| Pintaresistanssi                              | 10 <sup>13</sup> | Ω       | IEC 60093   |
| Vertailukulkemisindeksi (CTI)                 | 600              | V       | IEC 60112   |
| Imeytymisen maksimointi                       | 2.1              | %       | ISO 62      |
| Vesihaku kyllästymiseen                       | 2.1              | %       | ISO 62      |

| Egenskap                | Värde | Enhet               | Standard    |
|-------------------------|-------|---------------------|-------------|
| Särkyäkesto (Charpy)    | 1.6   | kJ/m²               | ISO 179/1eA |
| Iskunkestävyys (Charpy) | 15    | kJ/m²               | ISO 179/1eU |
| Lämpölaajenemiskerroin  | 0.0   | 10 <sup>-4</sup> /K | DIN 11359   |
| Kovuus Shore D          | 15    | ° Shore D           |             |
| Rockwell-kovuus         | 100   | M-scale             | ISO 2039-2  |
| Kulmapaineen kovuus     | 175   | MPa                 | ISO 2039-1  |

## 2. Kemisk beständighet

● Beständig
 ● Delvis beständig
 ● Ej beständig

| Kemikalie               | Konc. | Resultat       |
|-------------------------|-------|----------------|
| Acetic acid             | 100%  | <span>●</span> |
| Acetone                 | 100%  | <span>●</span> |
| Ammonia                 | conc. | <span>●</span> |
| Amyl alcohol            | -     | <span>●</span> |
| Apple juice             | -     | <span>●</span> |
| Benzene                 | -     | <span>●</span> |
| Butyl acetate           | -     | <span>●</span> |
| Calcium chloride        | -     | <span>●</span> |
| Carbon disulphide       | 100%  | <span>●</span> |
| Carbon tetrachloride    | -     | <span>●</span> |
| Chlorine gas            | 100%  | <span>●</span> |
| Chloroform              | -     | <span>●</span> |
| Citric acid             | 10%   | <span>●</span> |
| Cresol                  | -     | <span>●</span> |
| Cyclohexanone           | 100%  | <span>●</span> |
| Cyclohexene             | 100%  | <span>●</span> |
| Diesel                  | -     | <span>●</span> |
| Diethylene oxide        | -     | <span>●</span> |
| Ethyl acetate           | 100%  | <span>●</span> |
| Ethyl alcohol (ethanol) | 96%   | <span>●</span> |
| Ethylene chloride       | 100%  | <span>●</span> |
| Formaldehyde, aqueous   | 40%   | <span>●</span> |
| Formic acid             | 10%   | <span>●</span> |
| Fuel oil                | -     | <span>●</span> |

| Kemikalie                        | Konc.     | Resultat |
|----------------------------------|-----------|----------|
| Fuel, aromatic free              | -         | ●        |
| Glycerine                        | 100%      | ●        |
| Glycol                           | 100%      | ●        |
| Heptane                          | 100%      | ●        |
| Hydrochloric acid                | 10%       | ●        |
| Hydrochloric acid (concentrated) | conc.     | ●        |
| Hydrofluoric acid                | 40%       | ●        |
| Hydrogen peroxide                | 10%       | ●        |
| Hydrogen sulfide, aqueous        | -         | ●        |
| Isopropyl alcohol                | 100%      | ●        |
| Linseed oil                      | -         | ●        |
| Mercurochrome                    | -         | ●        |
| Methyl alcohol (methanol)        | 100%      | ●        |
| Methyl ethyl ketone (MEK)        | 100%      | ●        |
| Methylene chloride               | 100%      | ●        |
| Milk                             | -         | ●        |
| Mineral oils, aromatic free      | -         | ●        |
| Nitric acid                      | 10%       | ●        |
| Nitric acid (50%)                | 50%       | ●        |
| Nitrobenzene                     | -         | ●        |
| Oxalic acid                      | -         | ●        |
| Ozone (gas)                      | ≤ 0.5 ppm | ●        |
| Paraffin oil                     | 100%      | ●        |
| Perchloroethylene                | -         | ●        |
| Petroleum                        | 100%      | ●        |
| Petroleum ether                  | 100%      | ●        |
| Phenol, aqueous                  | ca. 9%    | ●        |
| Phosphoric acid                  | 50%       | ●        |
| Potassium hydroxide solution     | 50%       | ●        |
| Premium fuel                     | -         | ●        |
| Silicone oil                     | -         | ●        |
| Sodium carbonate, aqueous        | -         | ●        |
| Sodium chloride, aqueous         | -         | ●        |
| Sodium hydrogen sulfite          | -         | ●        |
| Sodium hydroxide solution (60%)  | 60%       | ●        |

| Kemikalie                                | Konc. | Resultat |
|------------------------------------------|-------|----------|
| Sodium hydroxide solution (caustic soda) | 15%   | ●        |
| Sodium thiosulfate                       | -     | ●        |
| Sulphuric acid                           | 96%   | ●        |
| Tetrahydrofuran (THF)                    | 100%  | ●        |
| Toluene                                  | 100%  | ●        |
| Transformer oil                          | -     | ●        |
| Trichloroethylene                        | 100%  | ●        |
| Vinegar, standard                        | 5-10% | ●        |
| Water                                    | -     | ●        |
| Xylene                                   | -     | ●        |