



# PMMA E 50/42x2000 mm transparent

Artikelnr P1200731

## 1. Tekniskt datablad

| Egenskap                                   | Värde   | Enhet   | Standard    |
|--------------------------------------------|---------|---------|-------------|
| Density                                    | 1.19    | g/cm³   | ISO 1183    |
| Tensile Strength                           | 72      | MPa     | ISO 527     |
| Modulus of elasticity (tensile)            | 3300    | MPa     | ISO 527-2   |
| Breakdown Voltage                          | 70      | MPa     | ISO 527-2   |
| Break Elongation                           | 5       | %       | ISO 527-2   |
| Melting point                              | 160     | °C      | ISO 3146    |
| Maximal operating temperature (short-term) | 107.5   | °C      | UL746B      |
| Maximum Operating Temperature              | 75      | °C      |             |
| Minimum temperature                        | -40     | °C      |             |
| Heat deflection temperature (HDT/A)        | 95      | °C      | ISO 75      |
| Heat deflection temperature (HDT/B)        | 100     | °C      | ISO 75      |
| Vicat softening temperature (VST/B/50)     | 103     | °C      | ISO 306     |
| Dielectric Strength                        | 30      | kV/mm   | IEC 60243-1 |
| Volume Resistivity                         | 10¹¹ µ  | Ω·cm    | IEC 60093   |
| Dielectric Constant (1 MHz)                | 1       | -       | IEC 60250   |
| Dielectric Constant (100 Hz)               | 2.7     | -       | DIN 53483-2 |
| Dielectric loss factor (1 MHz)             | 0.03    | -       | IEC 60250   |
| Dielectric loss factor (100 Hz)            | 0.06    | -       | DIN 53483-2 |
| Flexural Strength                          | 75      | MPa     | ISO 527-2   |
| Thermal Conductivity                       | 0.19    | W/(m·K) | DIN 52612   |
| Surface Resistivity                        | 10¹¹ Ω³ | Ω       | IEC 60093   |
| Comparative Tracking Index (CTI)           | 600     | V       | IEC 60112   |
| Water absorption to saturation             | 2.1     | %       | ISO 62      |
| Water Absorption to Saturation             | 2.1     | %       | ISO 62      |
| Notched impact strength (Charpy)           | 1.6     | kJ/m²   | ISO 179/1eA |
| Impact Resistance (Charpy)                 | 15      | kJ/m²   | ISO 179/1eU |
| Thermal Expansion Coefficient              | 0.0     | 10⁻⁵ /K | DIN 11359   |

| Egenskap               | Värde | Enhet      | Standard   |
|------------------------|-------|------------|------------|
| Hardness Shore D       | 15    | Å° Shore D |            |
| Rockwell hardness      | 100   | M-scale    | ISO 2039-2 |
| Ball pressure hardness | 175   | MPa        | ISO 2039-1 |

2. Kemisk beständighet

● Beständig ● Delvis beständig ● Ej beständig

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



| Kemikalie             | Konc. | Resultat |
|-----------------------|-------|----------|
| Sulphuric acid        | 96%   | ●        |
| Tetrahydrofuran (THF) | 100%  | ●        |
| Toluene               | 100%  | ●        |
| Transformer oil       | â€”   | ●        |
| Trichloroethylene     | 100%  | ●        |
| Vinegar, standard     | 5-10% | ●        |
| Water                 | â€”   | ●        |
| Xylene                | â€”   | ●        |