



## Complete Technical Documentation

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# PVC U 1000x1000x60 mm dark grey

Article No. P2202330

## 1. Technical Data Sheet

| Property                                   | Value            | Unit                | Test standard    |
|--------------------------------------------|------------------|---------------------|------------------|
| Density                                    | 1.53             | g/cm <sup>3</sup>   | ASTM D792        |
| Water absorption to saturation             | 0.5              | %                   | ASTM D570        |
| Water Absorption to Saturation             | 0.5              | %                   | ASTM D570        |
| Tensile Strength                           | 48.8             | MPa                 | ASTM D638        |
| Modulus of elasticity (tensile)            | 2669             | MPa                 | ASTM D638        |
| Breakdown Voltage                          | 40               | MPa                 | ISO 527          |
| Break Elongation                           | 14               | %                   | ISO 527          |
| Flexural Strength                          | 73.1             | MPa                 | ASTM D790        |
| Notched impact strength (Charpy)           | 4                | kJ/m <sup>2</sup>   | ISO 179          |
| Impact Resistance (Charpy)                 | 550              | kJ/m <sup>2</sup>   | DIN EN ISO 8256  |
| Hardness Shore D                           | 85               | ° Shore D           | ASTM D2240       |
| Ball pressure hardness                     | 100              | MPa                 | ISO 2039         |
| Melting point                              | 189.2            | °C                  | ASTM D3418       |
| Maximal operating temperature (short-term) | 93.3             | °C                  | UL 746B          |
| Maximum Operating Temperature              | 60               | °C                  |                  |
| Minimum temperature                        | -15              | °C                  | UL 746B          |
| Heat deflection temperature (HDT/A)        | 106.7            | °C                  | ASTM D648        |
| Vicat softening temperature (VST/B/50)     | 75               | °C                  | ISO 306          |
| Thermal Conductivity                       | 0.14             | W/(m·K)             | ISO 22007-4      |
| Thermal Expansion Coefficient              | 1.03             | 10 <sup>-4</sup> /K | ASTM D696        |
| Dielectric Strength                        | 40               | kV/mm               | IEC 60243-1      |
| Volume Resistivity                         | 10 <sup>15</sup> | Ω·cm                | DIN EN 62631-3-1 |
| Dielectric Constant (1 MHz)                | 3.1              | -                   | IEC 60250        |
| Dielectric Constant (100 Hz)               | 3.2              | -                   | IEC 60250        |
| Dielectric loss factor (1 MHz)             | 0.0              | -                   | IEC 60250        |



| Chemical                         | Concentration | Resist.        |
|----------------------------------|---------------|----------------|
| Ethyl alcohol (ethanol)          | 96%           | <span>●</span> |
| Ethylene chloride                | 100%          | <span>●</span> |
| Food oil                         | —             | <span>●</span> |
| Formaldehyde (aqueous)           | 40%           | <span>●</span> |
| Formic acid                      | 10%           | <span>●</span> |
| Frost protection agent           | —             | <span>●</span> |
| Fuel (aromatic free)             | —             | <span>●</span> |
| Fuel oil                         | —             | <span>●</span> |
| Glycerine                        | 100%          | <span>●</span> |
| Glycol                           | 100%          | <span>●</span> |
| Heptane                          | 100%          | <span>●</span> |
| Hydrochloric acid                | 10%           | <span>●</span> |
| Hydrochloric acid (concentrated) | conc.         | <span>●</span> |
| Hydrofluoric acid                | 40%           | <span>●</span> |
| Hydrogen peroxide                | 10%           | <span>●</span> |
| Hydrogen sulfide (aqueous)       | —             | <span>●</span> |
| Isopropyl alcohol                | 100%          | <span>●</span> |
| Linseed oil                      | —             | <span>●</span> |
| Mercurochrome                    | —             | <span>●</span> |
| Methyl alcohol (methanol)        | 100%          | <span>●</span> |
| Methyl ethyl ketone (MEK)        | 100%          | <span>●</span> |
| Methylene chloride               | 100%          | <span>●</span> |
| Milk                             | —             | <span>●</span> |
| Mineral oils (aromatic free)     | —             | <span>●</span> |
| Nitric acid                      | 50%           | <span>●</span> |
| Nitric acid                      | 10%           | <span>●</span> |
| Nitrobenzene                     | —             | <span>●</span> |
| Oxalic acid                      | —             | <span>●</span> |
| Ozone (gas)                      | ≤ 0.5 ppm     | <span>●</span> |
| Paraffin oil                     | 100%          | <span>●</span> |
| Perchloroethylene                | —             | <span>●</span> |
| Petroleum                        | 100%          | <span>●</span> |

| Chemical                                 | Concentration | Resist.                                                                               |
|------------------------------------------|---------------|---------------------------------------------------------------------------------------|
| Petroleum ether                          | 100%          |    |
| Phenol (aqueous)                         | ca. 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) | 15%           |   |
| Sodium hydroxide solution (caustic soda) | 60%           |  |
| Sodium nitrate (aqueous)                 | —             |  |
| Sodium thiosulfate                       | —             |  |
| Sulphuric acid                           | 96%           |  |
| Tetrahydrofuran (THF)                    | 100%          |  |
| Toluene                                  | 100%          |  |
| Transformer oil                          | —             |  |
| Trichloroethylene                        | 100%          |  |
| Vinegar (standard)                       | 5 - 10%       |  |
| Water                                    | —             |  |
| Xylene                                   | —             |  |