

PVC U 1400x1000x0,5 mm transparent smooth

Article No. P1201076

1. Technical Data Sheet

| Property | Value | Unit | Test standard |
|--|------------------|---------------------|------------------|
| Density | 1.53 | g/cm ³ | 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 ² | ISO 179 |
| Impact Resistance (Charpy) | 550 | kJ/m ² | 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 ⁻⁴ /K | ASTM D696 |
| Dielectric Strength | 40 | kV/mm | IEC 60243-1 |
| Volume Resistivity | 10 ¹⁵ | 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 |

| Property | Value | Unit | Test standard |
|----------------------------------|------------------|------|------------------|
| Surface Resistivity | 10 ¹³ | Ω | DIN EN 62631-3-2 |
| Comparative Tracking Index (CTI) | 600 | V | IEC 60112 |

2. Chemical Resistance

● Resistant ● Partially resistant ● Not resistant

| Chemical | Concentration | Resist. |
|---------------------------------------|---------------|---------|
| 1,4-Dioxane | 100% | ● |
| 2-Hydroxypropionic acid (lactic acid) | 90% | ● |
| Acetic acid | 100% | ● |
| Acetone | 100% | ● |
| Ammonia | conc. | ● |
| Ammonium chloride | — | ● |
| Amyl alcohol | — | ● |
| Apple juice | — | ● |
| Benzene | — | ● |
| Bleaching solution | 12.5 cl | ● |
| Boric acid | 100% | ● |
| Brake fluid | — | ● |
| Butyl acetate | — | ● |
| Calcium chloride | — | ● |
| Carbon disulphide | 100% | ● |
| Carbon tetrachloride | — | ● |
| Chlorine (gas) | 100% | ● |
| Chlorobenzene | 100% | ● |
| Chloroform | — | ● |
| Citric acid | 10% | ● |
| Cresol | — | ● |
| Cyclohexanone | 100% | ● |
| Cyclohexene | 100% | ● |
| Diesel | — | ● |
| Diethylene oxide | — | ● |
| Ethyl acetate | 100% | ● |

| Chemical | Concentration | Resist. |
|----------------------------------|---------------|---------|
| Ethyl alcohol (ethanol) | 96% | ● |
| Ethylene chloride | 100% | ● |
| Food oil | — | ● |
| Formaldehyde (aqueous) | 40% | ● |
| Formic acid | 10% | ● |
| Frost protection agent | — | ● |
| Fuel (aromatic free) | — | ● |
| Fuel oil | — | ● |
| 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 | 50% | ● |
| Nitric acid | 10% | ● |
| Nitrobenzene | — | ● |
| Oxalic acid | — | ● |
| Ozone (gas) | ≤ 0.5 ppm | ● |
| Paraffin oil | 100% | ● |
| Perchloroethylene | — | ● |
| Petroleum | 100% | ● |

| 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 | – | ● |