



Complete Technical Documentation

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PVC U 20x5000 mm SDR 13,5 transparent

Article No. P2202290

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
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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

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	—	