



Complete Technical Documentation

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PP-H 4120x2010x120 mm natural

Article No. P2201336

1. Technical Data Sheet

Property	Value	Unit	Test standard
Density	0.91	g/cm ³	ISO 1183
Water absorption to saturation	0.2	%	ISO 62
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Tensile Strength	36	MPa	ISO 527
Modulus of elasticity (tensile)	1700	MPa	ISO 527-2
Breakdown Voltage	30	MPa	ISO 527
Break Elongation	8	%	ISO 527-2
Flexural Strength	37	MPa	DIN EN ISO 527-2
Notched impact strength (Charpy)	9	kJ/m ²	ISO 179/1eA
Impact Resistance (Charpy)	7.7	kJ/m ²	ISO 179
Hardness Shore D	72	° Shore D	ISO 868
Ball pressure hardness	110	MPa	ISO 2039
Melting point	161	°C	DIN EN ISO 11357
Maximal operating temperature (short-term)	127	°C	UL746B
Maximum Operating Temperature	80	°C	
Minimum temperature	-7	°C	
Heat deflection temperature (HDT/A)	54	°C	ISO 75
Heat deflection temperature (HDT/B)	90	°C	ISO 75
Vicat softening temperature (VST/B/50)	50	°C	ISO 306
Thermal Conductivity	0.27	W/(m·K)	ISO 22007-4
Thermal Expansion Coefficient	1.6	10 ⁻⁴ /K	ISO 11359-2
Dielectric Strength	40	kV/mm	IEC 60243-1
Volume Resistivity	10 ¹⁴	Ω	DIN EN 62631-3-1
Dielectric Constant (1 MHz)	2.4	-	IEC 60250
Dielectric loss factor (1 MHz)	13.4	-	IEC 60250

Chemical	Concentration	Resist.
Ethyl acetate	100	●
Ethyl alcohol (ethanol)	96	●
Ethylene chloride	100	●
Food oil	—	●
Formaldehyde, aqueous	40	●
Formic acid	10	●
Frost protection agent	—	●
Fuel oil	—	●
Fuel, aromatic free	—	●
Glycerine	100	●
Glycol	100	●
Heptane	100	●
Hydrochloric acid	10	●
Hydrochloric acid (concentrated)	—	●
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	—	●

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)	60	●
Sodium hydroxide solution (caustic soda)	15	●
Sodium nitrate, aqueous	—	●
Sodium thiosulfate	—	●
Sulphuric acid	96	●
Tetrahydrofuran (THF)	100	●
Toluene	100	●
Transformer oil	—	●
Trichloroethylene	100	●
Vinegar, standard	5 - 10	●
Water	—	●
Xylene	—	●