PP-H 2000x1000x6 mm grey

Article No.	P1200900

1. Technical Data Sheet

Property	Value	Unit	Test standard
Density	0.91	g/cm³	ISO 1183
Water absorption to saturation	0.2	%	ISO 62
Water Absorption to Saturation	0.2	%	ISO 62
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/m²	ISO 179/1eA
Impact Resistance (Charpy)	7.7	kJ/m²	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

Property	Value	Unit	Test standard
Dielectric loss factor (100 Hz)	0.0	-	IEC 60250
Surface Resistivity	10^{13}	Ω	IEC 60093
Comparative Tracking Index (CTI)	600	V	IEC 60112
Flammability Classification (UL 94)	60695		UL 94

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	–	🟢
Ammonium chloride	–	🟢
Amyl alcohol	–	🟢
Benzene	–	🟡
Bleaching solution	–	🟡
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	–	🟡

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	10	🟢
Nitric acid	50	🔴
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	–	🔴