

PSU 50x1000 mm yellow

Article No. **P1010441**

1. Technical Data Sheet

Property	Value	Unit	Test standard
Density	1.24	g/cm ³	ISO 1183
Water absorption to saturation	0.8	%	ISO 62
Water Absorption to Saturation	0.3	%	ISO 62
Tensile Strength	89	MPa	ISO 527
Modulus of elasticity (tensile)	2680	MPa	ISO 527
Breakdown Voltage	85	MPa	DIN EN ISO 527
Break Elongation	10	%	ISO 527
Notched impact strength (Charpy)	2	kJ/m ²	ISO 179-1/1eA
Impact Resistance (Charpy)	170	kJ/m ²	ISO 179
Hardness Shore D	87	° Shore D	ISO 868
Ball pressure hardness	167	MPa	ISO 2039
Melting point	188	°C	ISO 3146
Maximal operating temperature (short-term)	160	°C	UL746B
Heat deflection temperature (HDT/A)	169	°C	ISO 75
Heat deflection temperature (HDT/B)	181	°C	ISO 75
Thermal Conductivity	0.25	W/(m·K)	ISO 22007-4
Thermal Expansion Coefficient	0.55	10 ⁻⁴ /K	ISO 11359
Dielectric Strength	42	kV/mm	IEC 60243-1
Volume Resistivity	10 ¹³	Ω·cm	IEC 60093
Dielectric Constant (1 MHz)	3.1	-	IEC 60250
Dielectric loss factor (1 MHz)	0.0	-	IEC 60250
Surface Resistivity	10 ¹³	Ω	IEC 60093
Comparative Tracking Index (CTI)	125	V	IEC 60112

2. Chemical Resistance

● Resistant ● Partially resistant ● Not resistant

Chemical	Concentration	Resist.
Acetic acid	100	●
Acetone	100	●
Ammonia	–	●
Benzene	–	●
Butyl acetate	–	●
Calcium chloride	–	●
Carbon tetrachloride	–	●
Chlorobenzene	100	●
Chloroform	–	●
Citric acid	10	●
Cyclohexene	100	●
Diesel	–	●
Diethylene oxide	–	●
Ethyl acetate	100	●
Ethyl alcohol (ethanol)	96	●
Food oil	–	●
Frost protection agent	–	●
Fuel (aromatic free)	–	●
Fuel oil	–	●
Glycerine	100	●
Glycol	100	●
Heptane	100	●
Hydrochloric acid	10	●
Hydrochloric acid (concentrated)	–	●
Hydrofluoric acid	40	●
Hydrogen peroxide	10	●
Isopropyl alcohol	100	●
Methyl alcohol (methanol)	100	●
Methyl ethyl ketone (MEK)	100	●
Methylene chloride	100	●
Milk	–	●

Chemical	Concentration	Resist.
Mineral oils (aromatic free)	–	●
Nitric acid	10	●
Oxalic acid	–	●
Perchloroethylene	–	●
Phosphoric acid	50	●
Silicone oil	–	●
Sodium carbonate (aqueous)	–	●
Sodium chloride (aqueous)	–	●
Sodium hydroxide solution (60%)	60	●
Sodium hydroxide solution (caustic soda)	15	●
Sulphuric acid	96	●
Toluene	100	●
Transformer oil	–	●
Trichloroethylene	100	●
Vinegar (standard)	5-10	●
Water	–	●
Xylene	–	●