

PPS 1000x610x25 mm black

Article No. P1010416

1. Technical Data Sheet

Property	Value	Unit	Test standard
Density	1.65	g/cm ³	ISO 1183
Water absorption to saturation	0.02	%	ISO 62
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Tensile Strength	83	MPa	ISO 527
Modulus of elasticity (tensile)	7630	MPa	ISO 527
Breakdown Voltage	136.5	MPa	ISO 527
Break Elongation	4	%	ISO 527
Flexural Strength	144	MPa	ISO 178
Notched impact strength (Charpy)	5	kJ/m ²	DIN EN ISO 179
Impact Resistance (Charpy)	27	kJ/m ²	ISO 179
Hardness Shore D	90	° Shore D	ISO 868
Ball pressure hardness	343	MPa	ISO 2039
Melting point	280	°C	ISO 3146
Maximal operating temperature (short-term)	230	°C	UL746B
Maximum Operating Temperature	162	°C	
Minimum temperature	-13	°C	
Heat deflection temperature (HDT/A)	260	°C	ISO 75
Thermal Conductivity	0.25	W/(m·K)	DIN 52612
Thermal Expansion Coefficient	0.3	10 ⁻⁴ /K	DIN 11359
Dielectric Strength	28	kV/mm	IEC 60243-1
Volume Resistivity	10 ¹⁴	Ω·cm	DIN EN 62631-3-1
Dielectric Constant (1 MHz)	3.6	-	IEC 60250
Dielectric loss factor (1 MHz)	0.0	-	IEC 60250
Surface Resistivity	10 ¹⁴	Ω	DIN EN 62631-3-2
Comparative Tracking Index (CTI)	125	V	IEC 60112

2. Chemical Resistance

● Resistant ● Partially resistant ● Not resistant

Chemical	Concentration	Resist.
1,4-Dioxane	100	●
Acetone	100	●
Ammonia	–	●
Ammonium chloride	–	●
Benzene	–	●
Brake fluid	–	●
Butyl acetate	–	●
Calcium chloride	–	●
Carbon tetrachloride	–	●
Chlorobenzene	100	●
Chloroform	–	●
Diesel	–	●
Diethylene oxide	–	●
Ethyl acetate	100	●
Ethyl alcohol (ethanol)	96	●
Frost protection agent	–	●
Fuel, aromatic free	–	●
Glycerine	100	●
Hydrochloric acid (10%)	10	●
Hydrochloric acid (concentrated)	–	●
Isopropyl alcohol	100	●
Methyl alcohol (methanol)	100	●
Methyl ethyl ketone (MEK)	100	●
Methylene chloride	100	●
Mineral oils (aromatic free)	–	●
Nitric acid (10%)	10	●
Nitric acid (50%)	50	●
Perchloroethylene	–	●
Phenol, aqueous	9	●
Phosphoric acid	50	●

Chemical	Concentration	Resist.
Premium fuel	–	●
Sodium chloride, aqueous	–	●
Sodium hydroxide solution (15%)	15	●
Sodium hydroxide solution (60%)	60	●
Sulphuric acid	96	●
Tetrahydrofuran (THF)	100	●
Toluene	100	●
Transformer oil	–	●
Trichloroethylene	100	●
Water	–	●
Xylene	–	●