

## PET 80x3000 mm black

Article No. P1003562

### 1. Technical Data Sheet

Property	Value	Unit	Test standard
Density	1.46	g/cm <sup>3</sup>	ISO 1183
Water absorption to saturation	0.02	%	ISO 62
Water Absorption to Saturation	0.02	%	ISO 62
Tensile Strength	52	MPa	ISO 527
Modulus of elasticity (tensile)	3400	MPa	ISO 527-2
Breakdown Voltage	58	MPa	ISO 527
Break Elongation	5	%	ISO 527-2
Flexural Strength	75.25	MPa	ISO 178
Notched impact strength (Charpy)	90	kJ/m <sup>2</sup>	ISO 180
Impact Resistance (Charpy)	37	kJ/m <sup>2</sup>	ISO 179/1eU
Hardness Shore D	77	° Shore D	ISO 868
Rockwell hardness	112	M-scale	
Ball pressure hardness	166	MPa	ISO 2039
Melting point	224	°C	ISO 3146
Maximal operating temperature (short-term)	138.75	°C	UL746B
Maximum Operating Temperature	97	°C	
Minimum temperature	-25	°C	
Heat deflection temperature (HDT/A)	85	°C	ISO 75
Heat deflection temperature (HDT/B)	100	°C	ISO 75
Vicat softening temperature (VST/B/50)	219	°C	ISO 306
Thermal Conductivity	0.33	W/(m·K)	DIN 52612
Thermal Expansion Coefficient	0.8	10 <sup>-4</sup> /K	DIN 11359
Dielectric Strength	22	kV/mm	IEC 60243-1
Volume Resistivity	10 <sup>18</sup>	Ω·cm	DIN EN 62631-3-1
Dielectric Constant (1 MHz)	3.3	-	IEC 60250

Property	Value	Unit	Test standard
Dielectric loss factor (1 MHz)	0.0	-	IEC 60250
Dielectric loss factor (100 Hz)	0.0	-	IEC 60250
Surface Resistivity	10 <sup>14</sup>	Ω	IEC 60093
Comparative Tracking Index (CTI)	600	V	IEC 60112

## 2. Chemical Resistance

● Resistant ● Partially resistant ● Not resistant

Chemical	Concentration	Resist.
1,4-Dioxane	100	●
1,4-Dioxane	100	●
Acetic acid	100	●
Acetic acid	100%	●
Acetic acid	100	●
Acetone	100	●
Acetone	100	●
Ammonia	conc.	●
Ammonia	conc.	●
Apple juice	—	●
Apple juice	—	●
Benzene	—	●
Benzene	—	●
Bleaching solution	—	●
Brake fluid	—	●
Brake fluid	—	●
Butyl acetate	—	●
Butyl acetate	—	●
Calcium chloride	—	●
Calcium chloride	—	●
Carbon disulphide	100	●
Carbon disulphide	100	●
Carbon tetrachloride	—	●
Carbon tetrachloride	—	●

Chemical	Concentration	Resist.
Carbon tetrachloride	—	●
Chlorobenzene	100	●
Chlorobenzene	100%	●
Chlorobenzene	100	●
Chloroform	—	●
Chloroform	—	●
Citric acid	10	●
Citric acid	10	●
Diesel	—	●
Diesel	—	●
Diethylene oxide	—	●
Diethylene oxide	—	●
Ethyl acetate	100	●
Ethyl acetate	100	●
Ethyl alcohol (ethanol)	96	●
Ethyl alcohol (ethanol)	96%	●
Ethyl alcohol (ethanol)	96	●
Ethylene chloride	100	●
Ethylene chloride	100	●
Food oil	—	●
Food oil	—	●
Food oil	—	●
Formic acid	10	●
Formic acid	10	●
Frost protection agent	—	●
Frost protection agent	—	●
Fuel oil	—	●
Fuel oil	—	●
Fuel, aromatic free	—	●
Fuel, aromatic free	—	●
Glycerine	100	●
Glycerine	100%	●

Chemical	Concentration	Resist.
Glycerine	100	●
Glycol	100	●
Glycol	100	●
Heptane	100	●
Heptane	100	●
Hydrochloric acid	10	●
Hydrochloric acid	10	●
Hydrochloric acid	conc.	●
Hydrochloric acid	conc.	●
Hydrochloric acid (concentrated)	conc.	●
Hydrofluoric acid	40%	●
Hydrofluoric acid	40	●
Hydrofluoric acid	40	●
Hydrogen peroxide	10	●
Hydrogen peroxide	10	●
Hydrogen sulfide, aqueous	—	●
Isopropyl alcohol	100%	●
Isopropyl alcohol	100	●
Isopropyl alcohol	100	●
Linseed oil	—	●
Linseed oil	—	●
Mercurochrome	—	●
Methyl alcohol (methanol)	100	●
Methyl alcohol (methanol)	100	●
Methyl alcohol (methanol)	100%	●
Methyl ethyl ketone (MEK)	100	●
Methyl ethyl ketone (MEK)	100	●
Methylene chloride	100	●
Methylene chloride	100	●
Milk	—	●
Milk	—	●
Mineral oils, aromatic free	—	●

Chemical	Concentration	Resist.
Mineral oils, aromatic free	–	●
Nitric acid	10%	●
Nitric acid	50	●
Nitric acid	10	●
Nitric acid	10	●
Nitric acid	50	●
Paraffin oil	100	●
Paraffin oil	100	●
Perchloroethylene	–	●
Perchloroethylene	–	●
Petroleum	100	●
Petroleum	100%	●
Petroleum ether	100	●
Petroleum ether	100	●
Petroleum ether	100%	●
Phenol, aqueous	ca.9	●
Phosphoric acid	50	●
Phosphoric acid	50	●
Potassium hydroxide solution	50	●
Potassium hydroxide solution	50	●
Premium fuel	–	●
Premium fuel	–	●
Propyl alcohol	–	●
Propyl alcohol	–	●
Silicone oil	–	●
Silicone oil	–	●
Sodium carbonate, aqueous	–	●
Sodium carbonate, aqueous	–	●
Sodium chloride, aqueous	–	●
Sodium chloride, aqueous	–	●
Sodium hydrogen sulfite	–	●
Sodium hydrogen sulfite	–	●

Chemical	Concentration	Resist.
Sodium hydrogen sulfite	–	●
Sodium hydroxide solution (caustic soda)	15	●
Sodium hydroxide solution (caustic soda)	60	●
Sodium hydroxide solution (caustic soda)	15	●
Sodium hydroxide solution (caustic soda)	60	●
Sodium nitrate, aqueous	–	●
Sodium thiosulfate	–	●
Sulphuric acid	96	●
Sulphuric acid	96	●
Tetrahydrofuran (THF)	100	●
Tetrahydrofuran (THF)	100	●
Toluene	100	●
Toluene	100%	●
Toluene	100	●
Transformer oil	–	●
Transformer oil	–	●
Trichloroethylene	100	●
Trichloroethylene	100	●
Vinegar, standard	5-10	●
Vinegar, standard	5-10%	●
Vinegar, standard	5-10	●
Water	–	●
Water	–	●
Xylene	–	●
Xylene	–	●