



Complete Technical Documentation

PlastShop.se

PET 60x1000 mm black

Article No. P1003516

1. Technical Data Sheet

Property	Value	Unit	Test standard
Density	1.46	g/cm ³	ISO 1183
Water absorption to saturation	0.02	%	ISO 62
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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 ²	ISO 180
Impact Resistance (Charpy)	37	kJ/m ²	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 ⁻⁴ /K	DIN 11359
Dielectric Strength	22	kV/mm	IEC 60243-1
Volume Resistivity	10 ¹⁸	Ω·cm	DIN EN 62631-3-1
Dielectric Constant (1 MHz)	3.3	-	IEC 60250

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	conc.	
Hydrochloric acid	10	
Hydrochloric acid	conc.	
Hydrochloric acid	10	
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	50	
Nitric acid	10	
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)	60	●
Sodium hydroxide solution (caustic soda)	60	●
Sodium hydroxide solution (caustic soda)	15	●
Sodium hydroxide solution (caustic soda)	15	●
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	—	●