



PET 1000x1000x20 mm natur

Artikelnr P1003805
Material PET

1. Tekniskt datablad

Egenskap	Värde	Enhet	Standard
Density	1.46	g/cm³	ISO 1183
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
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
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
Dielectric loss factor (1 MHz)	0.0	-	IEC 60250
Dielectric loss factor (100 Hz)	0.0	-	IEC 60250
Flexural Strength	75.25	MPa	ISO 178
Thermal Conductivity	0.33	W/(m·K)	DIN 52612
Surface Resistivity	10 ¹⁴	Ω	IEC 60093
Comparative Tracking Index (CTI)	600	V	IEC 60112
Water absorption to saturation	0.02	%	ISO 62
Water Absorption to Saturation	0.02	%	ISO 62
Notched impact strength (Charpy)	90	kJ/m²	ISO 180
Impact Resistance (Charpy)	37	kJ/m²	ISO 179/1eU

Egenskap	Värde	Enhet	Standard
Thermal Expansion Coefficient	0.8	10 ⁻⁴ /K	DIN 11359
Hardness Shore D	77	° Shore D	ISO 868
Rockwell hardness	112	M-scale	
Ball pressure hardness	166	MPa	ISO 2039

2. Kemisk beständighet

● Beständig
 ● Delvis beständig
 ● Ej beständig

Kemikalie	Konc.	Resultat
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	-	●
Carbon tetrachloride	-	●
Chlorobenzene	100%	●
Chlorobenzene	100	●

Kemikalie	Konc.	Resultat
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	
Glycerine	100%	
Glycol	100	
Glycol	100	
Heptane	100	
Heptane	100	

Kemikalie	Konc.	Resultat
Hydrochloric acid	conc.	
Hydrochloric acid	10	
Hydrochloric acid	10	
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	-	
Mineral oils, aromatic free	-	
Nitric acid	50	
Nitric acid	50	
Nitric acid	10%	
Nitric acid	10	
Nitric acid	10	
Paraffin oil	100	
Paraffin oil	100	

Kemikalie	Konc.	Resultat
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	-	
Sodium hydrogen sulfite	-	
Sodium hydroxide solution (caustic soda)	15	
Sodium hydroxide solution (caustic soda)	60	
Sodium hydroxide solution (caustic soda)	60	
Sodium hydroxide solution (caustic soda)	15	
Sodium nitrate, aqueous	-	
Sodium thiosulfate	-	
Sulphuric acid	96	
Sulphuric acid	96	
Tetrahydrofuran (THF)	100	
Tetrahydrofuran (THF)	100	

Kemikalie	Konc.	Resultat
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	-	