



PE-1000 30x1000 mm natur

Artikelnr P1004302
Material PE

1. Tekniskt datablad

Egenskap	Värde	Enhet	Standard
Density	0.95	g/cm³	ISO 1183
Tensile Strength	17	MPa	ISO 527
Modulus of elasticity (tensile)	800	MPa	DIN EN ISO 527-1/2
Breakdown Voltage	40	MPa	ISO 527
Break Elongation	200	%	ISO 527
Melting point	135	°C	ISO 3146
Maximal operating temperature (short-term)	100	°C	
Maximum Operating Temperature	64	°C	
Minimum temperature	-214	°C	UL746B
Heat deflection temperature (HDT/A)	42	°C	ISO 75
Heat deflection temperature (HDT/B)	65	°C	ISO 75
Vicat softening temperature (VST/B/50)	79	°C	DIN EN ISO 306
Dielectric Strength	45	kV/mm	IEC 60243-1
Volume Resistivity	1	Ω	IEC 60093
Dielectric Constant (1 MHz)	2.3	-	IEC 60250
Dielectric Constant (100 Hz)	2.55	-	IEC 60250
Dielectric loss factor (1 MHz)	0.0	-	IEC 60250
Dielectric loss factor (100 Hz)	0.0	-	IEC 60250
Flammability Classification (UL 94)	3		UL 94
Flexural Strength	17	MPa	ISO 527-2
Thermal Conductivity	0.4	W/(m·K)	DIN 52612
Surface Resistivity	10 ¹²	Ω	IEC 60093
Comparative Tracking Index (CTI)	600	V	IEC 60112
Water absorption to saturation	0.01	%	
Water Absorption to Saturation	0.01	%	ISO 62

Egenskap	Värde	Enhet	Standard
Notched impact strength (Charpy)	80	kJ/m²	ISO 11542-2
Impact Resistance (Charpy)	80	kJ/m²	DIN EN ISO 179-1/2
Thermal Expansion Coefficient	2	10 ⁻⁴ /K	ISO 11359
Hardness Shore D	60	° Shore D	shore D
Ball pressure hardness	34	MPa	ISO 2039-1
Creep Voltage at 1% Elongation	24	MPa	ISO 178

2. Kemisk beständighet

● Beständig ● Delvis beständig ● Ej beständig

Kemikalie	Konc.	Resultat
1,4-Dioxane	100	●
2-Hydroxypropionic acid (lactic acid)	90	●
Acetic acid	100	●
Acetone	100	●
Ammonia	-	●
Ammonium chloride	-	●
Amyl alcohol	-	●
Benzene	-	●
Boric acid	100	●
Brake fluid	-	●
Butyl acetate	-	●
Calcium chloride	-	●
Citric acid	10	●
Cresol	-	●
Cyclohexanone	100	●
Cyclohexene	100	●
Diesel	-	●
Ethyl acetate	100	●
Ethyl alcohol (ethanol)	96	●
Food oil	-	●
Formaldehyde, aqueous	40	●
Formic acid	10	●
Frost protection agent	-	●
Fuel oil	-	●

Kemikalie	Konc.	Resultat
Fuel, aromatic free	-	●
Glycerine	100	●
Glycol	100	●
Heptane	100	●
Hydrochloric acid	10	●
Hydrochloric acid (concentrated)	-	●
Hydrogen peroxide	10	●
Isopropyl alcohol	100	●
Linseed oil	-	●
Mercurochrome	-	●
Methyl alcohol (methanol)	100	●
Methylene chloride	100	●
Milk	-	●
Mineral oils, aromatic free	-	●
Nitric acid	10	●
Nitric acid	50	●
Nitrobenzene	-	●
Oxalic acid	-	●
Ozone (gas)	≤ 0.5 ppm	●
Paraffin oil	100	●
Perchloroethylene	-	●
Petroleum ether	100	●
Phenol, aqueous	ca. 9	●
Phosphoric acid	50	●
Potassium hydroxide solution	50	●
Premium fuel	-	●
Propyl alcohol	-	●
Silicone oil	-	●
Sodium carbonate, aqueous	-	●
Sodium chloride, aqueous	-	●
Sodium hydrogen sulfite	-	●
Sodium hydroxide solution (caustic soda)	60	●
Sodium hydroxide solution (caustic soda)	15	●
Sodium nitrate, aqueous	-	●
Sodium thiosulfate	-	●

Kemikalie	Konc.	Resultat
Sulphuric acid	96	
Transformer oil	-	
Vinegar, standard	5 - 10	
Water	-	
Xylene	-	