



## PVDF 115x1000 mm black

Artikelnummer: P1010526

### 1. Tekniskt Datablad (TDS)

#### Density & Weight

PROPERTY	VALUE	UNIT	STANDARD
Density	1.78	g/cm <sup>3</sup>	ISO1183

#### Moisture Absorption

PROPERTY	VALUE	UNIT	STANDARD
Water absorption to saturation	0.15	%	ISO62
Water Absorption to Saturation	0.35	%	ISO62

#### Tensile Properties

PROPERTY	VALUE	UNIT	STANDARD
Tensile Strength	40	MPa	ISO 527
Modulus of elasticity (tensile)	2200	MPa	ISO527-2
Breakdown Voltage	46	MPa	ISO 527
Break Elongation	17	%	ISO527-2

#### Flexural Properties

PROPERTY	VALUE	UNIT	STANDARD
Flexural Strength	62	MPa	ISO527-2

#### Impact Resistance

PROPERTY	VALUE	UNIT	STANDARD
Notched impact strength (Charpy)	8	kJ/m <sup>2</sup>	ISO 179

PROPERTY	VALUE	UNIT	STANDARD
Impact Resistance (Charpy)	150	kJ/m <sup>2</sup>	ISO179/1eU

#### Hardness

PROPERTY	VALUE	UNIT	STANDARD
Hardness Shore D	80	° Shore D	ISO868
Ball pressure hardness	120	MPa	ISO 2039

#### Temperature Limits

PROPERTY	VALUE	UNIT	STANDARD
Melting point	171	°C	ISO11357
Maximal operating temperature (short-term)	142	°C	UL746B
Maximum Operating Temperature	130	°C	UL746B
Minimum temperature	-26.1538	°C	
Heat deflection temperature (HDT/A)	104	°C	ISO 75
Heat deflection temperature (HDT/B)	145	°C	ISO 75
Vicat softening temperature (VST/B/50)	138	°C	ISO 306

#### Thermal Conductivity

PROPERTY	VALUE	UNIT	STANDARD
Thermal Conductivity	0.25	W/(m·K)	DIN22007-4

#### Thermal Expansion

PROPERTY	VALUE	UNIT	STANDARD
Thermal Expansion Coefficient	1.6	10 <sup>-4</sup> /K	ISO11359

#### Insulation Properties

PROPERTY	VALUE	UNIT	STANDARD
Dielectric Strength	27	kV/mm	IEC 60243-1
Volume Resistivity	10 <sup>13</sup>	Ω·cm	IEC 60093
Dielectric Constant (1 MHz)	7.6667	-	IEC 60250
Dielectric loss factor (1 MHz)	0.0933	-	IEC 60250

#### Static spread

PROPERTY	VALUE	UNIT	STANDARD
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PROPERTY	VALUE	UNIT	STANDARD
Surface Resistivity	10 <sup>14</sup>	Ω	IEC60093
Comparative Tracking Index (CTI)	600	V	IEC 60112

## 2. Säkerhetsinformation (MSDS)

**Classification:** Not classified as hazardous (CLP/GHS) i fast form.

**Handling:** Inga särskilda åtgärder vid normal hantering. Vid termisk bearbetning >300 °C: God ventilation — HF kan frigöras.

**Storage:** Förvaras torrt. 5-40 °C.

**Brandrisker:** Vid brand: HF (vätefluorid) kan frigöras — mycket frätande. Andningsskydd krävs.

## 3. Chemical Resistance

**A** Utmärkt **B** God **C** Begränsad **D** Ej rekommenderad

CHEMICAL	BETYG	CONC.	TEMP.
1,4-Dioxane	partially_resistant	100%	
2-Hydroxypropionic acid (lactic acid)	resistant	90%	
Acetic acid	resistant	100%	
Acetone	resistant	100%	
Ammonia	resistant		
Ammonium chloride	resistant		
Amyl alcohol	resistant		
Apple juice	resistant		
Benzene	resistant		
Bleaching solution	partially_resistant		
Boric acid	resistant	100%	
Brake fluid	resistant		
Butyl acetate	resistant		
Calcium chloride	resistant		
Carbon disulphide	resistant	100%	
Carbon tetrachloride	resistant		
Chlorine (gas)	resistant	100%	
Chlorobenzene	resistant	100%	
Chloroform	resistant		

CHEMICAL	BETYG	CONC.	TEMP.
Citric acid	resistant	10%	
Cresol	resistant		
Cyclohexanone	resistant	100%	
Cyclohexene	resistant	100%	
Diesel	resistant		
Diethylene oxide	resistant		
Ethyl acetate	resistant	100%	
Ethyl alcohol (ethanol)	resistant	96%	
Ethylene chloride	resistant	100%	
Food oil	resistant		
Formaldehyde (aqueous)	resistant	40%	
Formic acid	resistant	10%	
Frost protection agent	resistant		
Fuel oil	resistant		
Fuel, aromatic free	resistant		
Glycerine	resistant	100%	
Glycol	resistant	100%	
Heptane	resistant	100%	
Hydrochloric acid	resistant	10%	
Hydrochloric acid (concentrated)	resistant		
Hydrofluoric acid	resistant	40%	
Hydrogen peroxide	resistant	10%	
Hydrogen sulfide (aqueous)	resistant		
Isopropyl alcohol	resistant	100%	
Linseed oil	resistant		
Mercurochrome	resistant		
Methyl alcohol (methanol)	resistant	100%	
Methyl ethyl ketone (MEK)	not_resistant	100%	
Methylene chloride	partially_resistant	100%	
Milk	resistant		
Mineral oils (aromatic free)	resistant		

CHEMICAL	BETYG	CONC.	TEMP.
Nitric acid	resistant	10%	
Nitric acid (50%)	resistant	50%	
Nitrobenzene	resistant		
Oxalic acid	resistant		
Ozone (gas)	resistant	≤ 0.5 ppm%	
Paraffin oil	resistant	100%	
Perchloroethylene	resistant		
Petroleum	resistant	100%	
Phenol (aqueous)	resistant	ca. 9%	
Phosphoric acid	resistant	50%	
Potassium hydroxide solution	resistant	50%	
Premium fuel	resistant		
Propyl alcohol	resistant		
Pyridine	not_resistant		
Silicone oil	resistant		
Sodium carbonate (aqueous)	resistant		
Sodium chloride (aqueous)	resistant		
Sodium hydrogen sulfite	resistant		
Sodium hydroxide solution (60%)	resistant	60%	
Sodium hydroxide solution (caustic soda)	resistant	15%	
Sodium nitrate (aqueous)	resistant		
Sodium thiosulfate	resistant		
Sulphuric acid	resistant	96%	
Tetrahydrofuran (THF)	partially_resistant	100%	
Toluene	resistant	100%	
Transformer oil	resistant		
Trichloroethylene	resistant	100%	
Vinegar (standard)	resistant	5 - 10%	
Water	resistant		
Xylene	resistant		



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