



PC GF30 50x1000 mm natural

Artikelnummer: P1002814

1. Tekniskt Datablad (TDS)

Density & Weight

PROPERTY	VALUE	UNIT	STANDARD
Density	1.2	g/cm ³	ISO 1183

Moisture Absorption

PROPERTY	VALUE	UNIT	STANDARD
Water absorption to saturation	0.15	%	ISO 62
Water Absorption to Saturation	0.35	%	ISO 62

Tensile Properties

PROPERTY	VALUE	UNIT	STANDARD
Tensile Strength	75	MPa	ISO 527
Modulus of elasticity (tensile)	2400	MPa	ISO 527-2
Breakdown Voltage	60	MPa	
Break Elongation	50	%	ISO 527-2

Flexural Properties

PROPERTY	VALUE	UNIT	STANDARD
Flexural Strength	2400	MPa	ISO 178

Impact Resistance

PROPERTY	VALUE	UNIT	STANDARD
Notched impact strength (Charpy)	9	kJ/m ²	ISO 179/1eA

Hardness			
PROPERTY	VALUE	UNIT	STANDARD
Hardness Shore D	85	° Shore D	ISO 868
Ball pressure hardness	120	MPa	ISO 2039-1

Temperature Limits			
PROPERTY	VALUE	UNIT	STANDARD
Melting point	160	°C	ISO 3146
Maximal operating temperature (short-term)	118.9286	°C	UL746B
Maximum Operating Temperature	113.75	°C	
Minimum temperature	-54	°C	UL746B
Heat deflection temperature (HDT/A)	130	°C	ISO 75-2
Heat deflection temperature (HDT/B)	140	°C	ISO 75
Vicat softening temperature (VST/B/50)	150	°C	ISO 306

Thermal Conductivity			
PROPERTY	VALUE	UNIT	STANDARD
Thermal Conductivity	0.21	W/(m·K)	DIN 52612

Thermal Expansion			
PROPERTY	VALUE	UNIT	STANDARD
Thermal Expansion Coefficient	0.65	10 ⁻⁴ /K	DIN 11359

Insulation Properties			
PROPERTY	VALUE	UNIT	STANDARD
Dielectric Strength	29	kV/mm	IEC 60243-1
Volume Resistivity	10 ¹³	Ω·cm	IEC 60093
Dielectric Constant (1 MHz)	2.98	-	IEC 60250
Dielectric Constant (100 Hz)	3	-	IEC 60250
Dielectric loss factor (1 MHz)	0.0081	-	IEC 60250
Dielectric loss factor (100 Hz)	0.006	-	IEC 60250

Static spread			
PROPERTY	VALUE	UNIT	STANDARD

PROPERTY	VALUE	UNIT	STANDARD
Surface Resistivity	10 ¹⁵	Ω	IEC 60093
Comparative Tracking Index (CTI)	279.1667	V	IEC 60112

Fire Classification

PROPERTY	VALUE	UNIT	STANDARD
Flammability Classification (UL 94)	0		UL 94

2. Säkerhetsinformation (MSDS)

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

Handling: Inga särskilda åtgärder vid normal hantering. Vid bearbetning: Använd dammsug. Vid termisk bearbetning >300 °C: God ventilation.

Storage: Förvaras torrt och svalt. Skyddas mot UV-ljus och starka alkalier. 5-40 °C.

Brandrisker: Vid brand: CO, CO₂, fenol kan bildas. Använd andningsskydd.

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	not_resistant	100%%	
Acetone	not_resistant	100%%	
Ammonia	not_resistant	conc.%	
Ammonium chloride	resistant		
Apple juice	partially_resistant		
Benzene	not_resistant		
Bleaching solution	not_resistant	12.5 cl%	
Boric acid	resistant	100%%	
Butyl acetate	not_resistant		
Calcium chloride	resistant		
Carbon disulphide	not_resistant	100%%	
Carbon tetrachloride	not_resistant		
Chlorine (gas)	partially_resistant	100%%	

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

CHEMICAL	BETYG	CONC.	TEMP.
Milk	resistant		
Nitric acid (10%)	partially_resistant	10%%	
Nitric acid (50%)	not_resistant	50%%	
Nitrobenzene	not_resistant		
Oxalic acid	resistant		
Ozone (gas)	partially_resistant	≤ 0.5 ppm%	
Paraffin oil	resistant	100%%	
Perchloroethylene	not_resistant		
Petroleum	partially_resistant	100%%	
Petroleum ether	partially_resistant	100%%	
Phenol, aqueous	not_resistant	ca. 9%%	
Phosphoric acid	resistant	50%%	
Potassium hydroxide solution	not_resistant	50%%	
Premium fuel	not_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 (15%)	not_resistant	15%%	
Sodium hydroxide solution (60%)	not_resistant	60%%	
Sodium nitrate, aqueous	resistant		
Sulphuric acid	not_resistant	96%%	
Tetrahydrofuran (THF)	not_resistant	100%%	
Toluene	not_resistant	100%%	
Trichloroethylene	not_resistant	100%%	
Vinegar, standard	resistant	5-10%%	
Water	resistant		
Xylene	not_resistant		



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