



POM C FG 100/80x1000 mm natural

Artikelnummer: P1007429

1. Tekniskt Datablad (TDS)

Density & Weight

PROPERTY	VALUE	UNIT	STANDARD
Density	1.24	g/cm ³	ASTM D792

Moisture Absorption

PROPERTY	VALUE	UNIT	STANDARD
Water absorption to saturation	2.2	%	ASTM D955
Water Absorption to Saturation	0.5	%	ASTM D570

Tensile Properties

PROPERTY	VALUE	UNIT	STANDARD
Tensile Strength	51	MPa	DIN EN ISO 527-2
Modulus of elasticity (tensile)	1200	MPa	ASTM D790
Breakdown Voltage	76.5	MPa	ISO 527
Break Elongation	300	%	ASTM D638

Flexural Properties

PROPERTY	VALUE	UNIT	STANDARD
Flexural Strength	58	MPa	ASTM D638

Impact Resistance

PROPERTY	VALUE	UNIT	STANDARD
Notched impact strength (Charpy)	6	kJ/m ²	DIN EN ISO 179-1

PROPERTY	VALUE	UNIT	STANDARD
Impact Resistance (Charpy)	19	kJ/m ²	ISO 179/1eU

Hardness

PROPERTY	VALUE	UNIT	STANDARD
Hardness Shore D	83	° Shore D	ISO 868
Ball pressure hardness	230	MPa	ISO 2039-1

Temperature Limits

PROPERTY	VALUE	UNIT	STANDARD
Melting point	222	°C	ISO 3146
Maximal operating temperature (short-term)	129.1667	°C	UL746B
Maximum Operating Temperature	90.2778	°C	
Minimum temperature	-46.25	°C	
Heat deflection temperature (HDT/A)	105	°C	ASTM D648
Heat deflection temperature (HDT/B)	155	°C	ISO 75
Vicat softening temperature (VST/B/50)	50	°C	ISO 306

Thermal Conductivity

PROPERTY	VALUE	UNIT	STANDARD
Thermal Conductivity	0.3	W/(m·K)	DIN 52612

Thermal Expansion

PROPERTY	VALUE	UNIT	STANDARD
Thermal Expansion Coefficient	0.4	10 ⁻⁴ /K	ISO 11359

Insulation Properties

PROPERTY	VALUE	UNIT	STANDARD
Dielectric Strength	85	kV/mm	IEC 60243-1
Volume Resistivity	10 ¹²	Ω	IEC 60093
Dielectric Constant (1 MHz)	3.6889	-	IEC 60250
Dielectric loss factor (1 MHz)	0.0053	-	IEC 60250
Dielectric loss factor (100 Hz)	0.002	-	IEC 60250

Static spread

PROPERTY	VALUE	UNIT	STANDARD
Surface Resistivity	10 ¹³	Ω	IEC 60093
Comparative Tracking Index (CTI)	600	V	IEC 60112

Fire Classification

PROPERTY	VALUE	UNIT	STANDARD
Flammability Classification (UL 94)	60695		UL 94

2. Säkerhetsinformation (MSDS)

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

Handling: Inga särskilda åtgärder vid normal hantering. Vid termisk bearbetning: God ventilation krävs — formaldehyd kan frigöras vid >200 °C.

Storage: Förvaras torrt och svalt. Skyddas mot syror. 5-40 °C.

Brandrisker: Vid brand/termisk nedbrytning: Formaldehyd (CH₂O), CO, CO₂. Formaldehyd är hälsoskadligt. 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	partially_resistant	100%%	
Acetone	resistant	100%%	
Ammonia	resistant	conc.%	
Ammonium chloride	partially_resistant		
Amyl alcohol	resistant		
Apple juice	resistant		
Benzene	partially_resistant		
Bleaching solution	not_resistant	12.5 cl%	
Boric acid	partially_resistant	100%%	
Brake fluid	resistant		
Butyl acetate	resistant		
Calcium chloride	resistant		
Carbon disulphide	resistant	100%%	

CHEMICAL	BETYG	CONC.	TEMP.
Carbon tetrachloride	resistant		
Chlorobenzene	partially_resistant	100%%	
Chloroform	not_resistant		
Citric acid	partially_resistant	10%%	
Cyclohexanone	resistant	100%%	
Cyclohexene	resistant	100%%	
Diesel	resistant		
Diethylene oxide	resistant		
Ethyl acetate	partially_resistant	100%%	
Ethyl alcohol (ethanol)	resistant	96%%	
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	not_resistant	10%%	
Hydrochloric acid (concentrated)	not_resistant	conc.%	
Hydrofluoric acid	not_resistant	40%%	
Hydrogen peroxide	resistant	10%%	
Hydrogen sulfide, aqueous	resistant		
Isopropyl alcohol	resistant	100%%	
Linseed oil	resistant		
Mercurochrome	not_resistant		
Methyl alcohol (methanol)	resistant	100%%	
Methyl ethyl ketone (MEK)	partially_resistant	100%%	
Methylene chloride	not_resistant	100%%	
Milk	resistant		

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



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