



PA6 E FG 1000x1000x1 mm natur

Artikelnr P1001327
Material PA

1. Tekniskt datablad

Egenskap	Värde	Enhet	Standard
Density	1.14	g/cm³	ISO 1183
Density	1.13	g/cm³	ISO 1183
Tensile Strength	70	MPa	DIN EN ISO 527
Tensile Strength	83	MPa	ISO 527
Modulus of elasticity (tensile)	3250	MPa	ISO 527-2
Modulus of elasticity (tensile)	3330	MPa	ISO 527
Breakdown Voltage	75	MPa	ISO 527-2
Breakdown Voltage	54	MPa	ISO 527
Break Elongation	40	%	ISO 527-2
Break Elongation	50	%	ISO 527
Melting point	220	°C	ISO 3146
Melting point	220	°C	ISO 3146
Maximal operating temperature (short-term)	160	°C	
Maximal operating temperature (short-term)	130	°C	UL746B
Maximum Operating Temperature	90.5	°C	
Maximum Operating Temperature	85	°C	
Minimum temperature	-36	°C	
Minimum temperature	-40	°C	
Heat deflection temperature (HDT/A)	70	°C	ISO 75-2
Heat deflection temperature (HDT/A)	75	°C	ISO 75-2
Heat deflection temperature (HDT/B)	140	°C	ISO 75-2
Heat deflection temperature (HDT/B)	190	°C	ISO 75-2
Vicat softening temperature (VST/B/50)	190	°C	ISO 306
Dielectric Strength	30	kV/mm	IEC 60243-1
Dielectric Strength	25	kV/mm	IEC 60243-1

Egenskap	Värde	Enhet	Standard
Volume Resistivity	10 ¹³	Ω·cm	IEC 60093
Volume Resistivity	10 ¹²	Ω·cm	IEC 60093
Dielectric Constant (1 MHz)	3.8	-	IEC 60250
Dielectric Constant (1 MHz)	3.7	-	IEC 60250
Dielectric loss factor (1 MHz)	0.03	-	IEC 60250
Dielectric Constant (100 Hz)	3.9	-	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	76	MPa	ISO 527-2
Flexural Strength	100	MPa	ISO 178
Thermal Conductivity	0.32	W/(m·K)	DIN 52612
Thermal Conductivity	0.28	W/(m·K)	DIN 52612
Surface Resistivity	10 ¹³	Ω	IEC 60093
Comparative Tracking Index (CTI)	600	V	IEC 60112
Surface Resistivity	10 ¹³	Ω	IEC 60093
Comparative Tracking Index (CTI)	600	V	IEC 60112
Water absorption to saturation	2.5	%	ISO 62
Water absorption to saturation	9.5	%	ISO 62
Water Absorption to Saturation	9	%	ISO 62
Water Absorption to Saturation	9.5	%	ISO 62
Notched impact strength (Charpy)	5.5	kJ/m²	ISO 179/1eA
Notched impact strength (Charpy)	7	kJ/m²	ISO 179
Thermal Expansion Coefficient	1.1	10 ⁻⁴ /K	ISO 11359
Thermal Expansion Coefficient	0.9	10 ⁻⁴ /K	ISO 11359
Hardness Shore D	82	° Shore D	DIN EN ISO 868
Hardness Shore D	80	° Shore D	ISO 868
Ball pressure hardness	150	MPa	ISO 2039-1
Ball pressure hardness	155	MPa	ISO 2039

2. Kemisk beständighet

● Beständig ● Delvis beständig ● Ej beständig

Kemikalie	Konc.	Resultat
1,4-Dioxane	100	●

Kemikalie	Konc.	Resultat
2-Hydroxypropionic Acid	90	
Acetic Acid	100	
Acetone	100	
Ammonia	conc.	
Ammonium Chloride	-	
Amyl Alcohol	-	
Apple Juice	-	
Benzene	-	
Bleaching Solution	12.5 cl	
Boric Acid	100	
Brake Fluid	-	
Butyl Acetate	-	
Calcium Chloride	-	
Carbon Disulfide	100	
Carbon Tetrachloride	-	
Chlorine (gas)	100	
Chlorobenzene	100	
Chloroform	-	
Citric Acid	10	
Cresol	-	
Cyclohexanone	100	
Cyclohexene	100	
Diesel Fuel	-	
Diethylene Oxide	-	
Ethyl Acetate	100	
Ethyl Alcohol	96	
Ethylene Chloride	100	
Food Oil	-	
Formaldehyde (aqueous)	40	
Formic Acid	10	
Frost Protection Agent	-	
Fuel (aromatic free)	-	
Glycerine	100	
Glycol	100	

Kemikalie	Konc.	Resultat
Heating Oil	-	
Heptane	100	
Hydrochloric Acid	10	
Hydrochloric Acid (concentrated)	conc.	
Hydrofluoric Acid	40	
Hydrogen Peroxide	10	
Hydrogen Sulfide (aqueous)	-	
Isopropyl Alcohol	100	
Linseed Oil	-	
Mercurochrome	-	
Methyl Alcohol	100	
Methyl Ethyl Ketone (MEK)	100	
Methylene Chloride	100	
Milk	-	
Mineral Oils (aromatic free)	-	
Nitric Acid	50	
Nitric Acid	10	
Nitrobenzene	-	
Oxalic Acid	-	
Ozone Gas	≤ 0.5 ppm	
Paraffine Oil	100	
Perchloroethylene	-	
Petroleum	100	
Petroleum Ether	100	
Phenol (aqueous)	ca. 9	
Phosphoric Acid	50	
Potassium Hydroxide liquor	50	
Premium Fuel	-	
Propyl Alcohol	-	
Pyridine	-	
Silicone Oil	-	
Sodium Carbonate (aqueous)	-	
Sodium Chloride (aqueous)	-	
Sodium Hydrogen Sulfite	-	

Kemikalie	Konc.	Resultat
Sodium Hydroxide liquor	15	●
Sodium Hydroxide liquor	60	●
Sodium Nitrate (aqueous)	-	●
Sodium Thiosulfate	-	●
Sulfuric Acid	96	●
Tetrahydrofuran (THF)	100	●
Toluene	100	●
Transformer Oil	-	●
Trichloroethylene	100	●
Vinegar (standard)	5 - 10	●
Water	-	●
Xylene	-	●