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Komplett teknisk dokumentation

PlastShop.se - 2026-03-26

PA6 E FG 1000x500x40 mm natur

Artikelnr	P1001307
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	10	🔴
Nitric Acid	50	🔴
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	60	🟢
Sodium Hydroxide liquor	15	🟢
Sodium Nitrate (aqueous)	-	🟢
Sodium Thiosulfate	-	🟢
Sulfuric Acid	96	🔴
Tetrahydrofuran (THF)	100	🟡
Toluene	100	🟢
Transformer Oil	-	🟢
Trichloroethylene	100	🟡
Vinegar (standard)	5 - 10	🟢
Water	-	🟢
Xylene	-	🟢