PLASTSHOP.SE

Komplett teknisk dokumentation

PlastShop.se - 2026-03-26

PA12 3000x610x50 mm natur

Artikelnr	P1000552
Material	PA

1. Tekniskt datablad

Egenskap	Värde	Enhet	Standard
Density	**1.04**	g/cm³	
Tensile Strength	**66**	MPa	ISO 527
Modulus of elasticity (tensile)	**1470**	MPa	ISO 527
Breakdown Voltage	**45**	MPa	ISO 527
Break Elongation	**50**	%	ISO 527
Melting point	**180**	°C	DIN EN ISO 11357
Maximal operating temperature (short-term)	**133**	°C	UL746B
Maximum Operating Temperature	**110**	°C	
Heat deflection temperature (HDT/A)	**115**	°C	ISO 75
Heat deflection temperature (HDT/B)	**135**	°C	ISO 75
Vicat softening temperature (VST/B/50)	**50**	°C	ISO 306
Dielectric Strength	**34**	kV/mm	IEC 60243-1
Volume Resistivity	**10^{11}**	Ω	IEC 60093
Dielectric Constant (1 MHz)	**1**	-	IEC 60250
Dielectric loss factor (1 MHz)	**1**	-	IEC 60250
Flammability Classification (UL 94)	**60695**		UL 94
Flexural Strength	**53**	MPa	DIN EN ISO 527-2
Surface Resistivity	**~10^{13}**	Ω	IEC 60093
Comparative Tracking Index (CTI)	**600**	V	IEC 60112
Water absorption to saturation	**3**	%	ISO 62
Water Absorption to Saturation	**3**	%	ISO 62
Notched impact strength (Charpy)	**7**	kJ/m²	DIN EN ISO 179-1
Thermal Expansion Coefficient	**0.9**	10^{-4}/K	ISO 11359
Hardness Shore D	**83**	° Shore D	ISO 868
Ball pressure hardness	**90**	MPa	ISO 2039

2. Kemisk beständighet

Beständig Delvis beständig Ej beständig

Kemikalie	Konc.	Resultat
1,4-Dioxane	100	
2-Hydroxypropionic acid (lactic acid)	90	
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 disulphide	100	
Carbon tetrachloride	-	
Chlorine (gas)	100	
Chlorobenzene	100	
Chloroform	-	
Citric acid	10	
Cresol	-	
Cyclohexanone	100	
Cyclohexene	100	
Diesel	-	
Diethylene oxide	-	
Ethyl acetate	100	
Ethyl alcohol (ethanol)	96	
Ethylene chloride	100	
Food oil	-	
Formaldehyde (aqueous)	40	
Formic acid	10	
Fuel (aromatic free)	-	
Fuel oil	-	

Kemikalie	Konc.	Resultat
Glycerine	100	🟢
Glycol	100	🟢
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 (methanol)	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	🔴
Paraffin oil	100	🟢
Perchloroethylene	-	🟢
Petroleum	100	🟢
Petroleum ether	100	🟢
Phenol (aqueous)	ca. 9	🔴
Phosphoric acid	50	🔴
Potassium hydroxide solution	50	🟢
Premium fuel	-	🟢
Propyl alcohol	-	🔴
Pyridine	-	🟡
Silicone oil	-	🟢
Sodium carbonate (aqueous)	-	🟢
Sodium chloride (aqueous)	-	🟢
Sodium hydroxide solution (caustic soda)	15	🟢

Kemikalie	Konc.	Resultat
Sodium nitrate (aqueous)	-	
Sodium thiosulfate	-	
Sulphuric acid	96	
Tetrahydrofuran (THF)	100	
Toluene	100	
Transformer oil	-	
Trichloroethylene	100	
Vinegar (standard)	5 - 10	
Water	-	
Xylene	-