PLASTSHOP.SE

Komplett teknisk dokumentation

PlastShop.se - 2026-03-26

POM C 95x1000 mm svart

Artikelnr	P1004926
Material	POM

1. Tekniskt datablad

Egenskap	Värde	Enhet	Standard
Density	**1.24**	g/cm³	ASTM D792
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
Melting point	**222**	°C	ISO 3146
Maximal operating temperature (short-term)	**129**	°C	UL746B
Maximum Operating Temperature	**90**	°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
Dielectric Strength	**85**	kV/mm	IEC 60243-1
Volume Resistivity	**10^{12}**	Ω	IEC 60093
Dielectric Constant (1 MHz)	**3.7**	-	IEC 60250
Dielectric loss factor (1 MHz)	**0.0**	-	IEC 60250
Dielectric loss factor (100 Hz)	**0.0**	-	IEC 60250
Flammability Classification (UL 94)	**60695**		UL 94
Flexural Strength	**58**	MPa	ASTM D638
Thermal Conductivity	**0.3**	W/(m·K)	DIN 52612
Surface Resistivity	**10^{13}**	Ω	IEC 60093
Comparative Tracking Index (CTI)	**600**	V	IEC 60112
Water absorption to saturation	**2.2**	%	ASTM D955
Water Absorption to Saturation	**0.5**	%	ASTM D570
Notched impact strength (Charpy)	**6**	kJ/m²	DIN EN ISO 179-1

Egenskap	Värde	Enhet	Standard
Impact Resistance (Charpy)	**19**	kJ/m²	ISO 179/1eU
Thermal Expansion Coefficient	**0.4**	10^{-4}/K	ISO 11359
Hardness Shore D	**83**	° Shore D	ISO 868
Ball pressure hardness	**230**	MPa	ISO 2039-1

2. Kemisk beständighet

🟢 Beständig 🟡 Delvis beständig 🔴 Ej beständig

Kemikalie	Konc.	Resultat
1,4-Dioxane	100%	🟡
2-Hydroxypropionic acid (lactic 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 disulphide	100%	🟢
Carbon tetrachloride	-	🟢
Chlorobenzene	100%	🟡
Chloroform	-	🔴
Citric acid	10%	🟡
Cyclohexanone	100%	🟢
Cyclohexene	100%	🟢
Diesel	-	🟢
Diethylene oxide	-	🟢
Ethyl acetate	100%	🟡
Ethyl alcohol (ethanol)	96%	🟢
Food oil	-	🟢

Kemikalie	Konc.	Resultat
Formaldehyde, aqueous	40%	🟢
Formic acid	10%	🟢
Frost protection agent	-	🟢
Fuel oil	-	🟢
Fuel, aromatic free	-	🟢
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	10%	🔴
Nitric acid (50%)	50%	🔴
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	-	🟢

Kemikalie	Konc.	Resultat
Silicone oil	-	🟢
Sodium carbonate, aqueous	-	🟢
Sodium chloride, aqueous	-	🟢
Sodium hydrogen sulfite	-	🔴
Sodium hydroxide solution (15%)	15%	🟢
Sodium hydroxide solution (60%)	60%	🟡
Sodium nitrate, aqueous	-	🟢
Sulphuric acid	96%	🔴
Tetrahydrofuran (THF)	100%	🟡
Toluene	100%	🟢
Transformer oil	-	🟢
Trichloroethylene	100%	🟡
Vinegar, standard	5-10%	🟢
Water	-	🟢
Xylene	-	🟢