PLASTSHOP.SE

Komplett teknisk dokumentation

PlastShop.se - 2026-03-26

PMMA E 110/104x2000 mm transparent

Artikelnr	P1200750
Material	PMMA

1. Tekniskt datablad

Egenskap	Värde	Enhet	Standard
Density	**1.19**	g/cm³	ISO 1183
Tensile Strength	**72**	MPa	ISO 527
Modulus of elasticity (tensile)	**3300**	MPa	ISO 527-2
Breakdown Voltage	**70**	MPa	ISO 527-2
Break Elongation	**5**	%	ISO 527-2
Melting point	**160**	°C	ISO 3146
Maximal operating temperature (short-term)	**107.5**	°C	UL746B
Maximum Operating Temperature	**75**	°C	
Minimum temperature	**-40**	°C	
Heat deflection temperature (HDT/A)	**95**	°C	ISO 75
Heat deflection temperature (HDT/B)	**100**	°C	ISO 75
Vicat softening temperature (VST/B/50)	**103**	°C	ISO 306
Dielectric Strength	**30**	kV/mm	IEC 60243-1
Volume Resistivity	**10^{15}**	Ω·cm	IEC 60093
Dielectric Constant (1 MHz)	**1**	-	IEC 60250
Dielectric Constant (100 Hz)	**2.7**	-	DIN 53483-2
Dielectric loss factor (1 MHz)	**0.03**	-	IEC 60250
Dielectric loss factor (100 Hz)	**0.06**	-	DIN 53483-2
Flexural Strength	**75**	MPa	ISO 527-2
Thermal Conductivity	**0.19**	W/(m·K)	DIN 52612
Surface Resistivity	**10^{13}**	Ω	IEC 60093
Comparative Tracking Index (CTI)	**600**	V	IEC 60112
Water absorption to saturation	**2.1**	%	ISO 62
Water Absorption to Saturation	**2.1**	%	ISO 62
Notched impact strength (Charpy)	**1.6**	kJ/m²	ISO 179/1eA

Egenskap	Värde	Enhet	Standard
Impact Resistance (Charpy)	**15**	kJ/m²	ISO 179/1eU
Thermal Expansion Coefficient	**0.0**	10^{-4}/K	DIN 11359
Hardness Shore D	**15**	° Shore D	
Rockwell hardness	**100**	M-scale	ISO 2039-2
Ball pressure hardness	**175**	MPa	ISO 2039-1

2. Kemisk beständighet

🟢 Beständig 🟡 Delvis beständig 🔴 Ej beständig

Kemikalie	Konc.	Resultat
Acetic acid	100%	🔴
Acetone	100%	🔴
Ammonia	conc.	🟢
Amyl alcohol	-	🔴
Apple juice	-	🟢
Benzene	-	🔴
Butyl acetate	-	🔴
Calcium chloride	-	🟢
Carbon disulphide	100%	🔴
Carbon tetrachloride	-	🔴
Chlorine gas	100%	🟡
Chloroform	-	🔴
Citric acid	10%	🟢
Cresol	-	🔴
Cyclohexanone	100%	🔴
Cyclohexene	100%	🔴
Diesel	-	🟢
Diethylene oxide	-	🔴
Ethyl acetate	100%	🔴
Ethyl alcohol (ethanol)	96%	🟢
Ethylene chloride	100%	🔴
Formaldehyde, aqueous	40%	🟢
Formic acid	10%	🔴
Fuel oil	-	🟢
Fuel, aromatic free	-	🟢

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	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	-	🔴
Silicone oil	-	🟢
Sodium carbonate, aqueous	-	🟢
Sodium chloride, aqueous	-	🟢
Sodium hydrogen sulfite	-	🟢
Sodium hydroxide solution (60%)	60%	🔴
Sodium hydroxide solution (caustic soda)	15%	🟢

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