



PEEK 100/50x3000 mm black

Artikelnr P1500301

1. Tekniskt datablad

Egenskap	VÄrde	Enhet	Standard
Density	1.31	g/cm³	ISO 1183
Tensile Strength	112	MPa	ISO527-2
Modulus of elasticity (tensile)	4400	MPa	ISO 527-2
Breakdown Voltage	67	MPa	ISO 527
Break Elongation	20	%	ISO 527-2
Melting point	340	°C	ISO 3146
Maximal operating temperature (short-term)	291	°C	UL746B
Maximum Operating Temperature	245	°C	
Minimum temperature	-35	°C	
Heat deflection temperature (HDT/A)	160	°C	ISO 75-2
Heat deflection temperature (HDT/B)	240	°C	ISO 75
Vicat softening temperature (VST/B/50)	50	°C	ISO 306
Dielectric Strength	24	kV/mm	IEC 60243-1
Volume Resistivity	10¹¹	Ω·cm	IEC 60093
Dielectric Constant (1 MHz)	3.6	-	IEC 60250
Dielectric Constant (100 Hz)	3.2	-	IEC 60250
Dielectric loss factor (1 MHz)	0.0	-	IEC 60250
Dielectric loss factor (100 Hz)	0.0	-	IEC 60250
Flammability Classification (UL 94)	0		UL 94
Flexural Strength	110	MPa	ISO 527-2
Thermal Conductivity	0.25	W/(m·K)	DIN 52612
Surface Resistivity	10¹¹	Ω	IEC 60093
Comparative Tracking Index (CTI)	150	V	IEC 60112
Water absorption to saturation	0.2	%	ISO 62
Water Absorption to Saturation	0.45	%	ISO 62
Notched impact strength (Charpy)	3.5	kJ/m²	ISO 179/1eA
Impact Resistance (Charpy)	92	kJ/m²	ISO179/1eU

Egenskap	V�rde	Enhet	Standard
Thermal Expansion Coefficient	0.5	10�� /K	DIN 11359
Hardness Shore D	90	�� Shore D	DIN EN ISO 868
Ball pressure hardness	230	MPa	ISO 2039-1

2. Kemisk best ndighet

● Best ndig ● Delvis best ndig ● Ej best ndig

Kemikalie	Konc.	Resultat
1,4-Dioxane	100	●
2-Hydroxypropionic acid (lactic acid)	90	●
Acetic acid	100	●
Acetone	100	●
Ammonia	���	●
Ammonium chloride	���	●
Amyl alcohol	���	●
Apple juice	���	●
Benzene	���	●
Boric acid	100	●
Brake fluid	���	●
Butyl acetate	���	●
Calcium chloride	���	��
Carbon tetrachloride	���	��
Chlorine (gas)	100	��
Chlorobenzene	100	��
Chloroform	���	��
Citric acid	10	��
Cyclohexanone	100	��
Cyclohexene	100	��
Diesel	���	��
Diethylene oxide	���	��
Ethyl acetate	100	��
Ethyl alcohol (ethanol)	96	��
Ethylene chloride	100	��
Food oil	���	��

Kemikalie	Konc.	Resultat
Formaldehyde (aqueous)	40	
Formic acid	10	
Frost protection agent	â€”	
Fuel oil	â€”	
Fuel, aromatic free	â€”	
Glycerine	100	
Glycol	100	
Heptane	100	
Hydrochloric acid	10	
Hydrochloric acid (concentrated)	â€”	
Hydrofluoric acid	40	
Hydrogen peroxide	10	
Hydrogen sulfide (aqueous)	â€”	
Isopropyl alcohol	100	
Linseed oil	â€”	
Mercurochrome	â€”	
Methyl alcohol (methanol)	100	
Methyl ethyl ketone (MEK)	100	
Methylene chloride	100	
Milk	â€”	
Mineral oils (aromatic free)	â€”	
Nitric acid	50	
Nitric acid	10	
Nitrobenzene	â€”	
Oxalic acid	â€”	
Ozone (gas)	â€”	
Paraffin oil	100	
Perchloroethylene	â€”	
Petroleum	100	
Petroleum ether	100	
Phenol (aqueous)	9	
Phosphoric acid	50	
Potassium hydroxide solution	50	
Premium fuel	â€”	
Propyl alcohol	â€”	

Kemikalie	Konc.	Resultat
Pyridine	â€”	●
Silicone oil	â€”	●
Sodium carbonate (aqueous)	â€”	●
Sodium chloride (aqueous)	â€”	●
Sodium hydrogen sulfite	â€”	●
Sodium hydroxide solution (caustic soda)	60	●
Sodium hydroxide solution (caustic soda)	15	●
Sodium nitrate (aqueous)	â€”	●
Sodium thiosulfate	â€”	●
Sulphuric acid	96	●
Tetrahydrofuran (THF)	100	●
Toluene	100	●
Transformer oil	â€”	●
Trichloroethylene	100	●
Vinegar (standard)	5-10	●
Water	â€”	●
Xylene	â€”	●