

ABS 25x3000 mm natural

Article No. P1000031

1. Technical Data Sheet

Property	Value	Unit	Test standard
Density	1.05	g/cm ³	ISO 1183
Water absorption to saturation	0.2	%	ISO 62
Water Absorption to Saturation	1	%	ISO 62
Tensile Strength	37	MPa	ISO 527-2
Modulus of elasticity (tensile)	2600	MPa	ISO 527-2
Breakdown Voltage	36.5	MPa	ISO 527-2
Break Elongation	5	%	ISO 527-2
Flexural Strength	2500	MPa	ISO 178
Notched impact strength (Charpy)	25	kJ/m ²	ISO 179/1eA
Impact Resistance (Charpy)	170	kJ/m ²	ISO 179/1eU
Hardness Shore D	70	° Shore D	ISO 868
Rockwell hardness	80	R-scale	DIN EN ISO 2039-2
Ball pressure hardness	98	MPa	ISO 2039-1
Melting point	235	°C	ISO 3146
Maximal operating temperature (short-term)	93	°C	UL746B
Maximum Operating Temperature	82.5	°C	
Heat deflection temperature (HDT/A)	80	°C	ISO 75-2
Heat deflection temperature (HDT/B)	100	°C	ISO 75-2
Vicat softening temperature (VST/B/50)	101	°C	ISO 306
Thermal Conductivity	0.2	W/(m·K)	DIN 52612
Thermal Expansion Coefficient	0.8	10 ⁻⁴ /K	DIN 11359
Dielectric Strength	18	kV/mm	IEC 60243-1
Volume Resistivity	10 ¹⁵	Ω·cm	IEC 60093
Dielectric Constant (1 MHz)	2.6	-	IEC 60250
Dielectric loss factor (1 MHz)	0.0	-	IEC 60250

Property	Value	Unit	Test standard
Surface Resistivity	10 ¹⁵	Ω	IEC 60093
Comparative Tracking Index (CTI)	600	V	IEC 60112

2. Chemical Resistance

● Resistant ● Partially resistant ● Not resistant

Chemical	Concentration	Resist.
1,4-Dioxane	100	●
2-Hydroxypropionic acid (lactic acid)	90	●
Acetic acid	100	●
Acetone	100	●
Ammonia	—	●
Ammonium chloride	—	●
Amyl alcohol	—	●
Apple juice	—	●
Benzene	—	●
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	—	●
Ethyl acetate	100	●
Ethyl alcohol (ethanol)	96	●
Ethylene chloride	100	●
Food oil	—	●

Chemical	Concentration	Resist.
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)	–	●
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	–	●
Nitric acid	50	●
Nitric acid	10	●
Nitrobenzene	–	●
Oxalic acid	–	●
Ozone (gas)	–	●
Paraffin oil	100	●
Perchloroethylene	–	●
Petroleum	100	●
Petroleum ether	100	●
Phenol, aqueous	9	●
Phosphoric acid	50	●
Potassium hydroxide solution	50	●

Chemical	Concentration	Resist.
Premium fuel	–	●
Propyl alcohol	–	●
Pyridine	–	●
Silicone oil	–	●
Sodium carbonate, aqueous	–	●
Sodium chloride, aqueous	–	●
Sodium hydrogen sulfite	–	●
Sodium hydroxide solution (caustic soda)	60	●
Sodium hydroxide solution (caustic soda)	15	●
Sodium nitrate, aqueous	–	●
Sodium thiosulfate	–	●
Sulphuric acid	96	●
Tetrahydrofuran (THF)	100	●
Toluene	100	●
Transformer oil	–	●
Trichloroethylene	100	●
Vinegar (standard)	5-10	●
Water	–	●
Xylene	–	●