

Parylen Typ F



Good electrical properties and temperature protection

Material properties		
Melting temperature	> 460	[°C]
Linear coefficient of expansion	36	[ppm/K]
Thermal conductivity(25°C)	0,096	[W/m*K]
Permanent temperature	350	[°C]
Temporary peak temperature	450	[°C]
Tensile strength	52	[MPa]
Yield point	34	[MPa]
Tensile modulus	2.500	[MPa]
Elongation at break	200	[%]
Yield strain	2,0	[%]
Density	1,32	[g/cm ³]
Friction coefficient		
static	0,14	
dynamic	0,13	
Water absorption	< 0,009	[%/d]
Index of refraction(n_D^{23})	1,559	
Volume resistance (23°C, 50% r.F.)	2×10^{17}	[$\Omega \cdot \text{cm}$]
Surface resistance(23°C, 50% r.F.)	5×10^{15}	[$\Omega/\text{sq.}$]

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Protection properties		
Permeation (23°C)		
Nitrogen	4,79	[cm ³ /(m ² *d*bar)]
Oxygen	23,19	[cm ³ /(m ² *d*bar)]
Carbon dioxide	94,35	[cm ³ /(m ² *d*bar)]
Hydrogen sulfide	n/a	[cm ³ /(m ² *d*bar)]
Sulfur dioxide	n/a	[cm ³ /(m ² *d*bar)]
Chlorine	n/a	[cm ³ /(m ² *d*bar)]
Hydrogene	n/a	[cm ³ /(m ² *d*bar)]
Moisture permeability (37 °C, 90% r.F.)	0,23	[(g*mm)/(m ² *d)]

Chem. Resistance		Dip conditions
Hydrochloric acid 10%	n/a	75°C / 120 min
Sulfuric acid 10%	n/a	75°C / 120 min
Nitric acid 10%	n/a	75°C / 120 min
Hydrofluoric acid 10%	n/a	50°C / 120 min
Sodium hydroxide 10%	n/a	75°C / 120 min
Ammonium Hydroxide 10%	n/a	75°C / 120 min
Hydrogen peroxide	n/a	50°C / 120 min
Isopropyl	n/a	50°C / 120 min
Acetone	n/a	50°C / 120 min

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