

Parylen Typ C



Very good electrical and physical properties

Material properties		
Melting temperature	290	[°C]
Linear coefficient of expansion	35	[ppm/K]
Thermal conductivity(25°C)	0,082	[W/m*K]
Permanent temperature	125	[°C]
Temporary peak temperature	200	[°C]
Tensile strength	69	[MPa]
Yield point	55	[MPa]
Tensile modulus	3.200	[MPa]
Elongation at break	200	[%]
Yield strain	2,9	[%]
Density	1,289	[g/cm ³]
Friction coefficient		
static	0,29	
dynamic	0,29	
Water absorption	0,06	[%/d]
Index of refraction (n_D^{23})	1,639	
Volume resistance (23°C, 50% r.F.)	6×10^{16}	[Ω *cm]
Surface resistance (23°C, 50% r.F.)	10^{15}	[Ω /sq.]

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Protection properties		
Gas permeability (23°C)		
Nitrogen	0,36	[cm ³ /(m ² *d*bar)]
Oxygen	2,76	[cm ³ /(m ² *d*bar)]
Carbon dioxide	2,99	[cm ³ /(m ² *d*bar)]
Hydrogen sulfide	5,05	[cm ³ /(m ² *d*bar)]
Sulfur dioxide	4,27	[cm ³ /(m ² *d*bar)]
Chlorine	0,14	[cm ³ /(m ² *d*bar)]
Hydrogen	42,74	[cm ³ /(m ² *d*bar)]
Moisture permeability (37 °C, 90% r.F.)	0,06	[(g*mm)/(m ² *d)]

Chem. resistance		Dip conditions
Hydrochloric acid 10%	-0,28	75°C / 120 min
Sulfuric acid 10%	-0,28	75°C / 120 min
Nitric acid 10%	-0,28	75°C / 120 min
Hydrofluoric acid 10%	+0,09	50°C / 120 min
Sodium hydroxide 10%	-0,28	75°C / 120 min
Ammonium hydroxide 10%	-0,38	75°C / 120 min
Hydrogen peroxide	+0,00	50°C / 120 min
Isopropyl	+0,00	50°C / 120 min
Acetone	-0,09	50°C / 120 min

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