

# Parylen Typ N

High dielectric and highest coating penetration



Material properties		
Melting temperature	410	[°C]
Linear coefficient of expansion	69	[ppm/K]
Thermal conductivity(25°C)	0,120	[W/m*K]
Permanent temperature	90	[°C]
Temporary peak temperature	120	[°C]
Tensile strength	45	[MPa]
Yield point	43	[MPa]
Tensile modulus	2.400	[MPa]
Elongation at break	250	[%]
Yield strain	2,5	[%]
Density	1,110	[g/cm <sup>3</sup> ]
Friction coefficient		
static	0,25	
dynamic	0,25	
Water absorption	0,01	[%/d]
Index of refraction (n <sub>D</sub> <sup>23</sup> )	1,661	
Volume resistance (23°C, 50% r.F.)	1x10 <sup>-17</sup>	[Ω*cm]
Surface resistance (23°C, 50% r.F.)	10 <sup>15</sup>	[Ω/sq.]

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Protection properties		
Permeation (23°C)		
Nitrogen	7,59	[cm <sup>3</sup> /(m <sup>2</sup> *d*bar)]
Oxygen	11,65	[cm <sup>3</sup> /(m <sup>2</sup> *d*bar)]
Carbon dioxide	83,15	[cm <sup>3</sup> /(m <sup>2</sup> *d*bar)]
Hydrogen sulfide	308,91	[cm <sup>3</sup> /(m <sup>2</sup> *d*bar)]
Sulfur dioxide	0,73	[cm <sup>3</sup> /(m <sup>2</sup> *d*bar)]
Chlorine	28,75	[cm <sup>3</sup> /(m <sup>2</sup> *d*bar)]
Hydrogen	209,82	[cm <sup>3</sup> /(m <sup>2</sup> *d*bar)]
Moisture permeability (37 °C, 90% r.F.)	0,59	[(g*mm)/(m <sup>2</sup> *d)]

Chem. Resistance		Dip conditions
Hydrochloric acid 10%	+0,08	75°C / 120 min
Sulfuric acid 10%	+0,07	75°C / 120 min
Nitric acid 10%	+0,15	75°C / 120 min
Hydrofluoric acid 10%	+0,37	50°C / 120 min
Sodium hydroxide 10%	+0,15	75°C / 120 min
Ammonium hydroxide 10%	+0,15	75°C / 120 min
Hydrogen peroxide	+0,00	50°C / 120 min
Isopropyl	+0,07	50°C / 120 min
Acetone	+0,15	50°C / 120 min

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