

# Vinylec<sup>®</sup> Resins

## Chemical and Physical Properties

### Chemical properties (resistance):

Chemicals		Types	K	L	H	E
Acids & bases	Weak acids			○		
	Strong acids			○		
	Weak bases			○		
	Strong bases			○		
Organic solvents	Alcohols			○		
	Chlorinated			×		
	Aliphatic			○		
	Aromatic			○		
	Esters			○		
	Ketones			○		

• Excellent, ° Good, x Poor

### Chemical properties (resistance):

Physical Properties		Types	K	L	H	E
Specific gravity				1.1-1.3		
Tensile strength (N/mm <sup>2</sup> )				49-78		
Flexural strength (N/mm <sup>2</sup> )				108-127		
Hardness (Shore hardness tester)				70-80		
Flow temperature (°C)				140-150		
Heat distortion temperature (°C)				84-93		
Dielectric strength (kV/mm)				26-39		
Volume resistivity (Ω·cm)				10 <sup>14</sup> -10 <sup>16</sup>		
Dielectric constant (60Hz)				3.0-3.7		
Dissipation factor (60Hz)				0.006-0.015		