A21M-004

CAPROLACTONE AS A SOLVENT FOR VINYL RESINS

Caprolactone is an excellent high boiling solvent for vinyl resins. Compared with isophorone it will tolerate higher concentrations of diluent as evidenced by its viscosity behaviour. Its evaporation rate is approximately half that of isophorone, which is frequently reflected in improved flow.

Caprolactone is completely water soluble and published information indicates that it is of low toxicity.

The table below compares the viscosities of Vinylite VAGH in Caprolactone/toluene and isophorone/toluene blends.

% Toluene	Viscosity (centipoise) at 22°C	
	Isophorone	Caprolactone
15	640	1,360
30	480	800
45	380	530
60	360	380
70	410	370
75	800	500
80	1,800	620
85	17,200	1,120

As can be seen, although the solution viscosity of VAGH in pure solvent is higher for Caprolactone, the situation is reversed at high diluent levels.

The table below shows the viscosity behaviour of VAGH in xylene/Caprolactone blends.

% xylene	Viscosity (cps.) at 22°C
15	1,500
30	920
45	580
60	450
70	550
75	620
80	780
85	4,400

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The information given in this data sheet is given as a general guide and should not be taken to cover all cases. Each customer should ensure that the product concerned is suitable for the specific purpose and the manner in which it is intended to be used. The information given must not be taken in any way to form a specification. This data sheet does not form part of the Conditions of Sale of our products and is of a general nature.

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