

Starting Formulation for Capacitor Encapsulation

Formulation No: II-1, Status Code C

Ingredients	$\frac{w}{w}$	
Elvacite® 2021	47.0	(1)
MMA Monomer	42.5	(2)
Benzoyl Peroxide (initiator)	0.5	(3)
N.N Dimethyl-p-toluidine (activator)	2.0	(4)
Pigments	3.0	(5)
Fillers	<u>5.0</u>	(6)
	100.0	

(a) Method:

- (a) Mix (1) with (3) + 70% of (2) into a slurry
- (b) Mix (4) with 30% of (2).
- (c) Mix (b) into (a).

Heat is generated once the reaction starts.

The above can cure to a hard polymer in about 10 min at 22°C.

NOTES -

- (1) Elvacite® 2021 can be exchanged with 2009 for greater flexibility but the viscosity will be lower.
- (2) Alternative to N,N dimethyl-p-toluidine is N,N-dimethyl aniline but is about 4x slower in activation.
- (3) Activator should not be mixed with concentrated initiator as this forms an explosive mixture.**
- (4) MMA has a characteristic odour.

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