

## Epoxy Preparation Method (2011)

### Materials Used:

Epon 828 resin  
Jeffamine T-403 hardener  
Fillers: Almatix A-20SG or Almatix T-64

### Procedure:

1. Dry the alumina powder at 107°C for 4 hours.
2. Heat the 828 and T-403 at 70°C for 1 hour.
3. Fill out and follow Epoxy Sample worksheet.
3. Measure the resin (100 pbw) and hardener (43 pbw) into container and hand stir.
4. Measure the filler and add to epoxy. Hand mix.  
Use the following proportions:

20%	--129 pbw
30%	--222 pbw
40%	— 345 PBW
5. Degas at 1-3 torr. Approximately 3 minutes after foam rise collapse.
6. Pour into 1/2 inch diameter syringes or mold (preheat metal mold.)
7. Degas at 1-3 Torr until bubbles are no longer visible.
8. Place samples in preheated 80° C oven for 24 hours.