COMPOSITE TECHNOLOGY DEVELOPMENT, INC.

ENGINEERED MATERIAL SOLUTIONS

NANUQ™ CTD-425
Technical Data Summary

- **Blended EP/CE system**
  - CTD-425 is a two-part system with Epoxy (EP) and Cyanate Ester (CE) catalyst in part A and Cyanate Ester (CE) in part B
- **System mixing ratio**
  - Mix 60 parts A (EP) to 40 parts B (CE)
- **Processing**
  - Mixing/Processing Temperature: 45-60°C
- **Initial Viscosity and Potlife**

	At T=45°C	At T=50°C
Initial viscosity	**90 mPa·s**	**70 mPa·s**
Viscosity after 100 hours	**150 mPa·s**	**150 mPa·s**

- **Cure Profile**
  - Ramp slowly from processing temperature to 100°C (suggest > 2 hours)
  - 22 hour hold at 100°C; material should gel
  - Ramp slowly from 100°C to 170°C (suggest >3 hours)
  - 24 hour hold at 170°C
  - Cool down SLOWLY to room temperature (suggest > 6 hours)
- **T_g by DMA (from knee of storage modulus)**
  - 185°C

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