

**PALM**

**LABORATORIES**

**TECHNICAL DATA**

**TURBO EPOXY – 5 MINUTE**

Palm Lab's Turbo Epoxy 5 Minute Formula is a two component system and is suited for encapsulation, sealing, bonding and potting. The mixed product has a fixture time of 5 minutes with full cure of 24 hours. The final cured product has an excellent surface finish and excellent bond strength to most all thermoplastics. This product also cures more quickly at elevated temperatures.

**PHYSICAL PROPERTIES (Uncured State - Resin)**

Base compound (Resin)	Chemical Type Epoxy Resin
Appearance	White
Viscosity cP	11,000 – 14,000 cp @ 25°C (mPa.s)
Specific Gravity	1.16
Flash Point	252 °C PMCC
Shelf Life	24 Months
Solubility in Water	Insoluble

**PHYSICAL PROPERTIES (Uncured State - Hardener)**

Base compound (Resin)	Polyamide Resin
Appearance	Amber
Viscosity cP	80 - 120 cP
Specific Gravity	1.61
Flash Point	> 200°F
Solubility in Water	Moderate (1-10%)

**PHYSICAL PROPERTIES (Cured State)**

DSC max Tg	93°C
Tensile Strength	6,400 psi
Elongation	3.8%
Flexural Modulus	326,000 psi
Compressive Strength	11,4000 psi
Coefficient of Thermal Expansion (1/k)	60-120 x 10 E <sup>-6</sup>
Dielectric Strength (kv/mm)	50 - 90

**MATERIAL SET UP TIME**

Fixture Time	5 Minutes
Full Cure	24 Hours

INFORMATION ON THIS PRODUCT AND OTHERS SUPPLIED TO USER IS BASED ON OUR GENERAL EXPERIENCE AND IS GIVEN IN GOOD FAITH, BUT BECAUSE OF THE MANY PARTICULAR FACTORS WHICH ARE OUTSIDE OF OUR KNOWLEDGE AND CONTROL AND AFFECT THE USE OF THE PRODUCT, NO WARRANTY IS GIVEN OR IMPLIED WITH RESPECT TO SUCH INFORMATION. FREEDOM UNDER PATENTS, COPYRIGHTS AND REGISTERED DESIGNS CANNOT BE ASSUMED.

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12/19/08