# N7000-3

# **Toughened Polyimide**

# Laminate & Prepreg

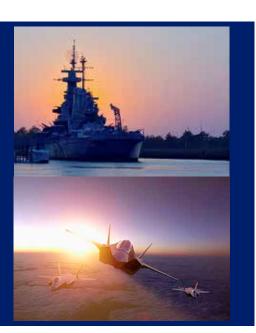


### **Benefits**

- Polyimide Resin Chemistry
- · Robust Thermal Stability and Reliability
- High Temp Tolerance and Chemical Resistance
- Designed for Use in Severe Conditions

# **Applications**

- Backplanes
- Fine-Line, Surface-Mount and BGA Multilayers
- Avionics
- Down-well Petroleum
- Burn-in Boards



N7000-3 is a next-generation high-Tg polyimide system using a toughened resin chemistry. The product meets UL 94V-1 designation. This advanced material is designed for use in a wide variety of applications that include fine geometry multilayer constructions and extreme reliability. This polyimide also meets NASA requirements for no visible bromine.

### Polyimide Resin Chemistry

- I Robust thermal stability and reliability
- I Toughened resin system
- I High temperature tolerance

#### **Excellent Reliability and Performance**

- I Withstands multiple thermal excursions
- I Tg 260°C by DSC
- I T-260 >120 minutes
- Low Z-Axis CTE

# Reliable Plated-through Holes

Low Z-Axis CTE and toughened polyimide chemistry providing good dimensional stability

#### Reliable Processing

- Improved fracture resistance compared with traditional polyimide systems
- l Reduced cure time compared to other traditional polyimide systems

Meets UL 94V-1 and IPC-4101/40, /41 and /42 Specifications Complies with the old GIJ and GIL specifications

UL file number: E36295

Properties	Conditions	Typical Value	Unit	Test Method
Electrical Properties				
	@ 1 GHz	3.5		

Dielectric Constant