



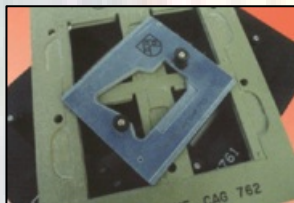
PROFESSIONAL PLASTICS, INC. **Supplier of High-Performance Laminates & Composites**

Printed Circuit Board Materials



Durapol®

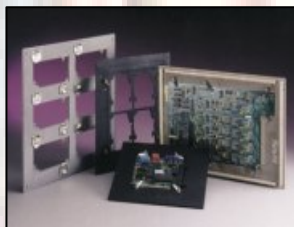
Durapol® IGL L200 wave solder pallet materials are recognized worldwide and appreciated for their high temperature resistance, good machinability, chemical resistance, static dissipative properties and are sensor detectable. Durapol® materials have helped the PCB manufacturers to reduce solder defects, protect components against heat and electrostatic discharge, increase the productivity and improve stability of the manufacturing process, while reducing the size of carriers in conjunction with the miniaturizing trends for the PCB's. Solder wave, SMT, selective soldering process: whatever the process, Durapol® products can be machined according to customer expectations.



Durostone®

Durostone® wave solder pallet materials have excellent mechanical properties at elevated temperatures. Durostone is easier to handle than other products used for PCB tooling due to two factors:

- The density, which helps to reduce the weight of the finished tooling.
- The glass and resin content, which ensures that the line operators and the machinists are not subjected to skin irritation alleviating any health & safety concerns.



Glastic CBC, CBC-C & NBC

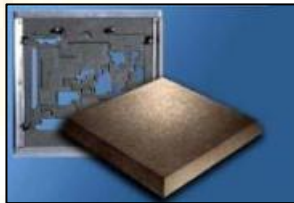
Glastic solder pallet materials are lightweight, with dimensional stability, flatness, thermal shock resistance and chemical resistance making them ideal products for the very hostile, lead-free environments presented in wave solder applications. Each sheet is closely checked for warp, twist, surface resistivity and other key properties prior to being micro-sanded to the tightest tolerance control available (+/- 0.002").

Available in three popular versions to meet your assembly needs:

(CBC) Non-Conductive

(CBC-C) Electrical static safe semi-conductive

(NBC) Optically sense-able without compromising electric static discharge safety.



WaveMax 5000 – SP525M

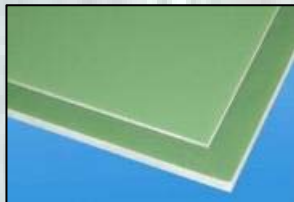
Wavemax 5000 is non-woven substrate combined with high temperature and static dissipative epoxy resin. Wavemax has superior machining properties, and is capable of producing thin walls with high strength for finely machined parts. It has excellent mechanical strength at elevated temperatures. The continuous operating temperature is over 200°C. Short excursions to temperatures approaching 360°C, such as in wave soldering or IR re-flow, will not adversely affect the life of this material

- Surface resistivity: Ohms/sq 10^5 to 10^9
- Volume resistivity: Ohm-cm 10^4 to 10^{11}



StatNot™ – MC511SN(ESd G-11)

MC511SN - StatNot is a composite material consisting of woven glass and a static-dissipative epoxy resin system. It offers electrostatic dissipative properties (10^6 to 10^{10} ohm squares). This material is used when static dissipation is required from surface to surface of the composite in the X, Y, and Z directions. The product can serve as slot filler material in structural applications. Other applications include PCB test fixtures and tabletops used for testing and repair of military electronics.



G-11 Glass Epoxy Laminate

G-11 combines a woven glass fabric and a high temperature epoxy resin system (T_g over 180°C) that is non-brominated. The product provides consistent quality and good electrical properties under dry and humid conditions, as well as high flexural, impact, and bond strength at room and elevated temperatures. This product is suitable for a variety of structural, high humidity, and electrical insulation applications, which include cryogenic applications (NIST process system) and many other applications for which very high or very low temperatures are part of the environmental requirement of the application. G-11 meets or exceeds the requirements of MIL-I-24768/3, Type GEB.



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