



» PRODUCT BULLETIN

Bergamid™ Laser Welding Solutions

Bergamid™ Laser Welding Solutions help customers produce high performance parts with durable welds and smooth surfaces. These solutions provide a well-controlled laser transmission rate and weld width, excellent welding strength, and gas tight weld line without weld flash.

The materials used for laser welding must allow a minimum 20% transmission rate for laser energy. In addition, laser absorption levels can be adjusted using our formulation expertise. The Bergamid Laser Welding product portfolio offers PA66 formulations that meet required transmission rates across various sectors. In addition to PA66, our solutions also can be customized using multiple base resins such as PC and PBT to meet specific customer needs.

To further support customers, Avient offers a range of value-added services and is ready to collaborate on part design, material compatibility evaluations, laser welding process selection and more to drive success.

KEY CHARACTERISTICS

- Part design freedom
- Reduced tooling cost
- Controlled laser transmission rate and weld width
- Minimum heat affected zone
- Gas tight weld line with no weld flash
- Multiple color options

MARKETS & APPLICATIONS

Bergamid Laser Welding Solutions can meet the demanding technical requirements of laser welding for a range of markets & applications, including:

- Automotive
- Medical Devices
- Consumer Goods
- Houseware Applications

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