

## **Resins Aim to Eliminate Corrosion Issues In Automotive Applications**

Solvay Advanced Polymers, LLC has expanded its range of Amodel polyphthalamide (PPA) resins for automotive electronics applications. According to the company, the new Amodel Electronic (AE) grades eliminate corrosion issues in high temperature and high humidity conditions for a range of applications including sensors, connectors, electric motors, electronic control unit housings, bobbins, solenoids, and other circuit protection. The new AE grades complement the company's Amodel HS (Heat Stabilized) product line. The AE line has been formulated to prevent corrosion issues while still maintaining the performance attributes of the Amodel PPA. Amodel AE grades are asserted to eliminate the possible shorting out or cross-talk between sensitive electrical contacts.

The AE line includes AE-4133, a high-flow, fast-cycling injection moldable material available in black and natural. The water-moldable material delivers the highest heat distortion temperature (300°C, 572°F) in the Amodel PPA product line, making it appropriate for SMT and laser welding. The new line also offers AE-8133, which offers the highest retention of dielectric properties in the Amodel product line and is available in black. AE-8133 is processed on oil-heated injection molds and is particularly suited for power electronics applications for hybrid vehicles.

Solvay has also introduced a developmental grade, Amodel PXM-11229, which is a partially bio-based material that offers up to 5 percent lower specific gravity and one-third the moisture absorption versus comparable glass-reinforced standard Amodel grades, according to the company.

### **Solvay Advanced Polymers, LLC**

[www.solvayspecialtypolymers.com](http://www.solvayspecialtypolymers.com) [1]

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