

Ascend Performance Materials is introducing new glass fiber-reinforced Vydyne PA66 for use in the electrical and electronic industry.

This new family of low plate-out, glass fiber-reinforced PA66 is designed specifically for the molding of parts with thin sidewalls and complex geometries. The excellent flow and cleanliness of these products facilitate easy processing. These new Vydyne® grades also extend molding run lengths by reducing the occurrence of mold deposits in venting areas.

Heat stabilization in these grades of Vydyne is achieved by incorporation of copper-free additives, which avoids the formation of corrosion on pin contacts during processing and also eliminates detrimental interaction with transmission fluids in automotive applications.

This qualifies these grades as ideal materials for the manufacturing of connectors and electronic control units with over-molded contact pins.

Electrically Neutral Vydyne® R535J >PA66-HT GF35<

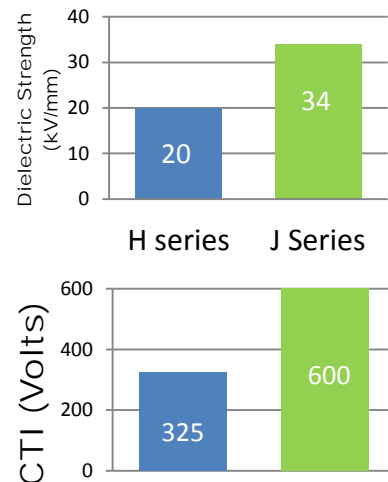
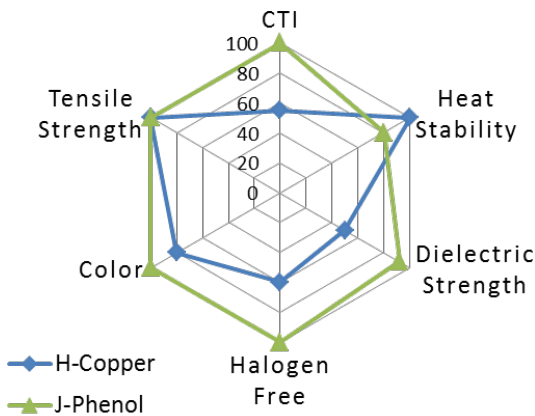


Figure 1: Performances of the new PA6.6 35%GF Vydyne® grade versus the standard copper based heat stabilized PA6.6 35%GF

Solution: Vydyne R535J NT

Targeted Application:
Airbag Connectors

Results:

- + 25,000 additional shots before mold maintenance
- Decreased injection pressure by 10% to 135 bars
- 25% Reduction color master batch



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Figure 2: Processing of the new PA6.6 35%GF Vydyne® grade versus a competitive PA6.6 35%GF grade

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