

AGS TECHNOLOGY CASE STUDY: RU READY FOR CROSS POLYMER SUBSTITUTION SOLUTIONS



PRODUCT PROFILE

Industry:

Automotive (Interior)

Applications:

Armrests Substrates Chrysler Pacifica 1st, 2nd, & 3rd Row Seats

Material Description:

33% Glass Reinforced PA66 to meet ASTM D4000 Callout

Requirements:

• Cross-Load Strength • Toughness • Rigidity

CUSTOMER ISSUE

Originally specified in virgin, 40% long glass fiber polypropylene the molded substrates off production tooling failed the cross-load strength test requirement during product validation.

AGS INJECTION MOLDING SOLUTION

By cross polymer substituting the virgin 40% long glass fiber polypropylene material with an inherently higher performance recycled, 33% glass reinforced PA66 the substrates exceeded product validation requirements without incurring a part cost penalty. No changes to the production tooling were required given similar shrink values. The Injectoblend™ FPA66235 material was assigned an ASTM D4000 callout by FCA Engineering and merited an SPE Innovation Award in the Environmental category.

