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# **Technical Focus Sheet: uPVC profiles**

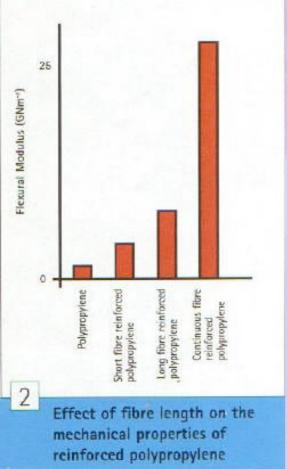
### uPVC profiles

uPVC is widely used in window, door, and conservatory profiles as it is:

very cheap

stiff for a plastic

However longer profiles require a steel insert to be stiff enough for purpose. These have to be cut to length and fixed to the profile.



### The Potential of Jonam's technology

The uPVC profile can be reinforced using continuous fibres removing the requirement for the steel insert.

## The challenge

uPVC:

is viscous-so not easy to impregnate with glass fibres
 has a narrow process window and is easily degraded, so requires enclosed bespoke tooling for each profile
 the application has narrow profit margins restricting the scope for development

#### **The Solutions**

Through a number of different projects Jonam Composites has come up with two different options:

- Make the reinforcing composite using a compatible resin and co-extrude uPVC over it.
- Specialist tooling to selectively reinforce uPVC in a profile- requires further development

