

2019

Innovation in Manufacture | **Winner:** Surface Generation

Thermoplastic overmoulding (TPO) technology with UD tape reinforcement for structural automotive applications

Overview

Surface Generation won this award with its thermoplastic overmoulding (TPO) technology with UD tape reinforcement for structural automotive applications.

Lightweighting as an activity within the automotive sector is well established and efforts will only increase within the supply chain as OEM's seek to meet lowered fleet emission levels of 95g CO₂/km from 2021.

Thermoplastic overmoulding (TPO) technology is highly attractive due to the balance between affordability and performance, and due to the reduction in overall lifecycle costs compared to competing thermoset composite solutions.

Surface Generation's component is a "patch panel" designed to offer improved body stiffness without added mass and at an affordable price.

The component possesses complex geometry and variable thickness (2mm to 8mm).



Alasdair Ryder from Surface Generation (left) collects the award from Axillium's Alex Aucken.

"Surface Generation is delighted to receive this award and wish to acknowledge the support of all partners whose expertise and assistance has enabled the development of thermoplastic overmoulding in the UK over the last three years."

Alasdair Ryder,
Special Projects Engineer,
Surface Generation Ltd

The Composites UK Industry Awards are presented at the black-tie dinner which is aligned with the Composites Engineering Show in Birmingham.

Keep an eye out for our annual nomination process every May for your chance to apply.

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