NASCAR
Air Flow Duct

NASCAR recently launched its Next Gen race cars to the speedway but faced a serious problem: excessive cabin heat, making driving in heat-protective safety gear extremely uncomfortable for their drivers. NASCAR needed a solution that would meet the demanding needs of high-performance racing. Stratasys Direct utilized Stratasys' H350™ SAF™ printer to manufacture air flow ducts in High Yield Nylon 11. The ducts were mated directly to the windshield, to redirect air from the outside into the car's cabin to cool the driver. The parts were 3D printed using SAF™ technology, then dyed black using the DyeMansion DM60. Then, the part was non-abrasively shot-peened with a polymer bead blast utilizing the Dyemansion Powershot S to give the parts a homogeneous semi-gloss surface treatment.

The fully post processed SAF™ parts printed by Stratasys Direct are now featured in every NASCAR Next Gen racecar.

System	H350 3D printer
Technology	SAF technology
Material	High Yield PA11
Printed Layer Time*	11h 37m for 2 airflow ducts
Volume of Material Used	21.1in^3 (346cm^3)

* Printed layer time approximates the time taken to print the layers that form the parts in the build only

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