



Orion Spacecraft Hatch Cover

This pie-shaped component is part of the hatch cover assembly for NASA's Orion spacecraft. It was 3D printed using Stratasys® Antero™ 840CN03, a PEKK-based thermoplastic with low outgassing and consistent electrostatic dissipative (ESD) properties. Lockheed-Martin chose this material for the substantial savings it offers compared to other materials that would require additional coatings and post-processing to deflect the static charge. Antero 840CN03 gives manufacturers a high-performance, ESD-compliant 3D printing material that meets demanding applications such as space flight.

System	F900®
Material	Antero 840CN03
Build Time	20 hrs
Material Used	30 in ³ (76.2 cm ³)
Support Material Used	15.5 in ³ (39.4 cm ³)