

Orion Performance Compounds, Inc

Presented to IACMI

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Who is Orion Performance Compounds, Inc.

- Orion is a high-end custom compounder of engineering thermoplastics, providing custom solutions to everyday and unique application challenges.
- Our Center-of-Excellence compounding facility in Lugoff, SC (Greater Columbia, SC area) was chosen for the rapid delivery to a vast portion of the USA via convenient Interstate Hwys and airports.



Why Lugoff, SC ?

Close to IACMI 😊



50-Mile Radius Report for Lugoff CDP, South Carolina

This region includes 12 counties: Calhoun, SC; Chester, SC; Chesterfield, SC; Clarendon, SC; Darlington, SC; Fairfield, SC; Kershaw, SC; McCormick, SC; Richland, SC; Saluda, SC; York, SC; and York, SC.

[Download County-level Detail Data](#)

Population in 2020:
1 228 831

10-Year Growth:
8.3%

Population radius: Lugoff SC

<u>Miles</u>	<u>Population</u>	<u>10 Yr Growth %</u>
25	84k	4.0%
50	1.3mm	8.3%
100	6MM	11.6%
200	19.5MM	11.7%
500	95MM	7.7%



Orion Performance Compounds

A new company, 200+ yrs in the making.

- New building and all new equipment
- Experienced compounding staff (most with 20-40 yrs exp each)
- 50,000 Sq Ft on 26 acres
- Twin screw and single screw extrusion
- Built with expansion in mind
 - Electric and all infrastructure oversized
 - Pre-graded for additional 100K Sq Ft
 - Up to 10 lines planned
- Orion launched it's first line last month.
- Next 2 lines will be operational July



Orion Center of Excellence



Typical Resins

- Amorphous

- ABS
- ASA
- SAN
- Polystyrene
- PC
- PC/ABS
- PEI
- PSU, PPSU
- PES
- Amorphous nylon
- PPO

- Crystalline

- PE/PP
- Nylon family
- Acetal
- PEEK
- PPS
- PPA
- PBT
- POK
- PUR



Functional Additives

Conductive Additives

- Carbon fiber
- Carbon black
- Stainless steel

Wear and Friction Additives

- PTFE
- Silicon
- Aramid
- MoS₂
- Carbon fiber
- PFPE

Flame Retardants

- Non-halogenated
- Eco friendly
- REACH compliant

Structural

- Glass fiber
- Carbon fiber
- Dimensional additives

Stabilizers

- UV
- Thermal stabilizer
- O₂ scavenger

Start with plastic pellets from resin suppliers.



Carbon fiber



Basic role of a Custom Compounder

S
T
A
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T

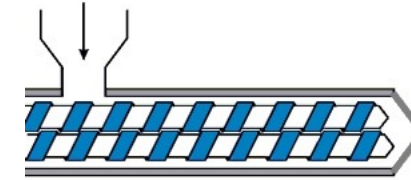
Basic Resin Pellets



CF



Secret sauce



Twin Screw Design

Pelletization

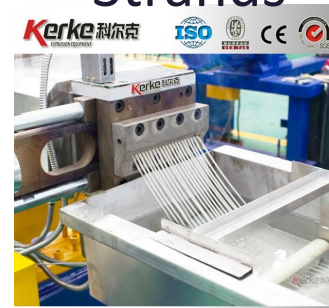


Highly Specialized Pellets

Cooling



Strands

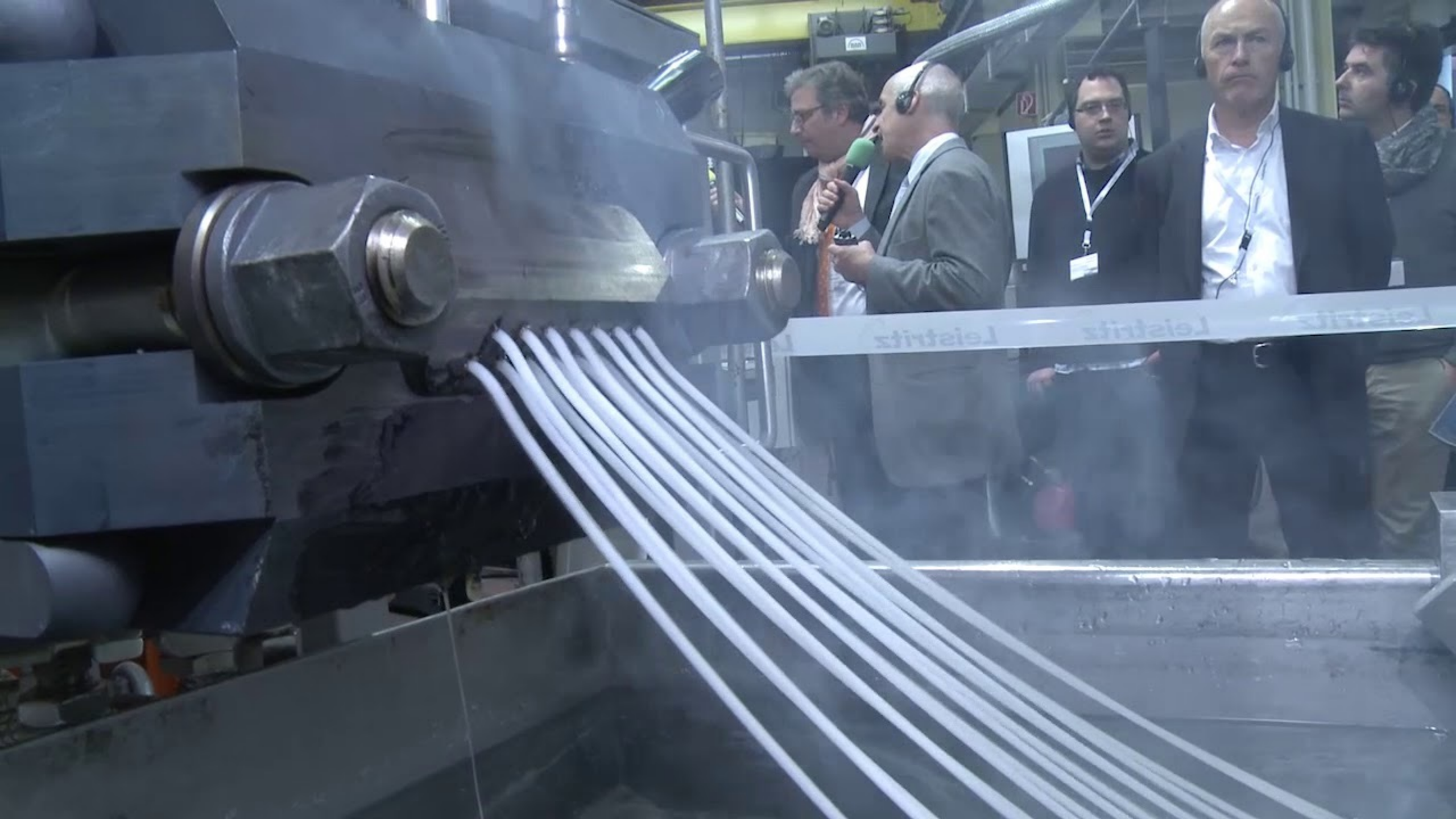


Extruder



E
N
D





Orion Tradenames

Tradenames	Functionality
i-OnStat®	Conductive
i-OnLube®	Lubricated
i-OnComp®	Engineered Compound
i-OnColor®	Unfilled Color
i-OnFlame®	FR
i-OnShield®	EMI-RFI Shielding
i-On3D®	Additive Mfg
i-OnEco®	Eco Friendly



Where do all the pellets go?

Medical



Electronics



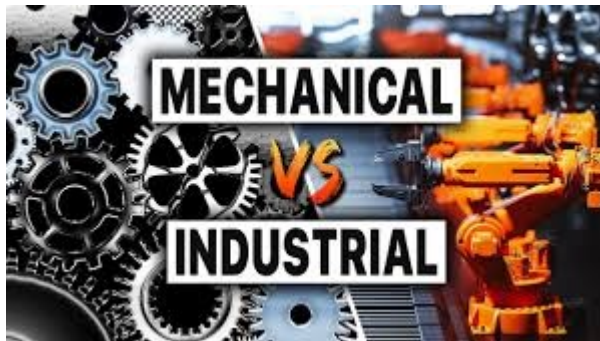
Aerospace & Auto



Business Machine



Industrial



Sporting Goods



Consumer





We welcome the opportunity to be your
compounding partner.

Thank You

