

# In-House Development Lab Services



*Comprehensive trials can be run  
at ENTEK's in-house development  
lab to optimize your process*

- State-of-the-art lab offers customers the opportunity to run trials to optimize their process
- Lab equipment includes E-MAX™ 27mm and 53mm twin-screw extruders, feeder systems and downstream equipment
- Test material formulations, develop screw profiles, make pellets, extrude profiles, improve downstream operations
- Experienced ENTEK engineers on-hand to support your entire lab experience



# ENTEK In-House Development Lab Services

## Lab Features:

### Extruders:

- ✓ ENTEK 53mm Extruder (36-52 L/D, 300hp, 1200rpm)
- ✓ ENTEK 27mm Extruder (36-48 L/D, 40hp, 1200rpm)

### Analytical Equipment:

- ✓ Melt flow index tester (MFI), differential scanning calorimeter (DSC), Carver press and optical microscopes
- ✓ Moisture analyzer

### Mixing:

- ✓ High intensity mixer and low intensity blender

### Feeding:

- ✓ Brabender® loss-in-weight feeders for powder, pellet, flake and liquids

### Auxillary Equipment:

- ✓ Vacuum pumps, vacuum stuffers, side-feeders and melt pumps

### Dies:

- ✓ Pellet, profile and sheet dies

### Data Acquisition:

- ✓ Rockwell RSView™ for Process Control and Data Acquisition
- ✓ RSLinx™ to on-board Allen-Bradley® SLC-5/05E processor
- ✓ Excel Spreadsheet via RSLinx™

### Downstream Processing:

- ✓ Scheer-Bay water-slide pelletizer
- ✓ Hot-face pellet cutter (suitable for natural fiber-filled products)
- ✓ Profile cooling tanks
- ✓ Scheer-Bay strand pelletizer and water bath
- ✓ Gala underwater pelletizer
- ✓ Conair travelling saw
- ✓ Air cooled conveyor belt for strands



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