



PHOENIX
PlasticsTM

Engineering Specialty Additives for the future of the Plastics Industry

About Us

Phoenix Plastics L.P. is located north of Houston in Conroe, Texas. Phoenix Plastics currently develops and manufactures Engineered Grade Additives for the Plastics Industry. The Phoenix Plastics team has over 100 years of combined working plastics development, knowledge, and experience.

With full analytical testing capabilities and over 200 developed additives, Phoenix Plastics has the advantage of developing, testing, and providing solutions to meet our customers' high standards.

We at Phoenix Plastics are dedicated to meeting the needs of our customers through innovation, customer service, research and development, and by offering products that meet their current and future needs.



Industries Served:

Film- Blown/ Cast • Blow Molding • Injection • Rotational • Compounding • Extrusion Profile

Lab Capabilities:

Fourier Transform Infrared Spectroscopy (FTIR) • Instron • QUV • Melt • Ash • Gas Analysis
Mechanical Lab: Injection Machines • Film Lines • Rotational Molding • Extrusion Equipment

Products:

Purge Compounds (Cleansing Agents) • Chemical Foaming Agents (CFA) • Process Aids
Vapor Corrosion Inhibitors (VCI) • Flame Retardants • Stabilizers / UV Additives
Essential Oils • Antimicrobials

Cel-Span Purge Products

Our purge products provide solutions to a wide range of applications and resin types. From commodity to engineered resins and almost any manufacturing plastic process, we have products that produce the results you are looking for and the technical support to help you achieve your goals.

Cel-Span

Purge 388 and Purge 388FG

350°F – 450°F (177°C – 232°C)

- Purge 388 and Purge 388FG are binary purging compounds containing chemical and mechanical properties and are used directly, no mixing is needed. Contains an expansion agent to reach areas of low pressure.
- Purge 388FG utilizes the same technology as Purge 388 but with the added scrubbing of both long and short strand glass fiber.
- For Injection molding, blow molding, profile extrusion

Cel-Span

Purge 300 and Purge 300FG

350°F – 550°F (177°C – 315°C)

- A low cost and wide temperature range purging compound used directly, no mixing is needed.
- Purge 300FG utilizes the same technology as Purge 300 but with the added scrubbing of short strand glass fiber.
- For Injection molding, blow molding, profile and sheet extrusion.

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Purge 385

350°F – 450°F (177°C – 232°C)

- Used directly without mixing
- For Film, injection molding hot-runner systems, sheet extrusion and blow molding.

Purge-All

350°F – 450°F (177°C – 232°C)

- Purge additive used at 5% for blown/ cast film where clarity and resin contamination are critical.
- Can be used without collapsing of the bubble for faster changeovers.
- Also used in blow molding and profile extrusion.

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Purge 300HT

550°F – 750°F (288°C – 400°C)

- Formulation specially tailored for purging high temperature resins, where other purging products lose their properties and degrade. Ideal for purging PEEK, UHMW-HDPE, PPS, and other high temperature resins.
- Used directly, without mixing, for injection molding and sheet applications.

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Purge 606P

460°F – 600°F (238°C – 315°C)

- Purging concentrate for polycarbonate and PMMA applications where clarity is critical.
- Formulation designed to maintain resin transparency, eliminating unwanted degradation and black specs.

Cel-Span Chemical Foaming Agents

We produce a variety of chemical foaming agents to fit your needs from injection molding to film/ sheet applications.

- Endothermic, Exothermic and binary systems are available.
- Chemical foaming agents for Polyolefin's, engineered resins and commodities.
- Gas yields from 40cc/gm. – 200 cc/gm.

Cel-Span

CFA 840

- Small cell structure 40% endothermic – Decomposition Temperature: 350°F (176°C)
- Gas Volume g/cc: 60-70 CO₂
- For injection molding, sheet, and nucleating applications of polyolefins.

Cel-Span

CFA 844

- High gas yield 80% endothermic – Decomposition Temperature: 300°F (148°C)
- Gas Volume g/cc: 120-130 CO₂
- Recommended for injection molding, structural foam and profile of polyolefins.

Cel-Span

CFA 899

- Super fine cell structure – Decomposition Temperature: 380°F (193°C)
- Gas Volume g/cc: 50-60 CO₂
- For extrusion, injection, structural foam molding and sheet of polyolefin, styrene and ABS

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CFA 200

- Binary 50% (endo/exo) self-nucleating system – Decomposition Temperature: 195°F (315°C)
- Gas Volume g/cc: 160-170 CO₂, N₂, NH₃
- Recommended for injection molding of any kind of thermoplastics, except polycarbonate and polyesters.

Cel-Span Stabilizers

Stabilization is a key element when shutdown/ start-up/ delays, high temperature or UV requirements are critical.

Cel-Span

S 310

- Stabilization of your resin during shutdown and routine maintenance procedures prevents unwanted polymer degradation and production delays.
- Added to reprocessed or regrind materials to prevent continued degradation and molecular breakdown.
- Recommended for injection molding, film/ cast and profile of polyolefins.

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UVS 717

- Maintained 85% over 5,000 hour. QUV 340.
- Recommended for polyolefin films, extruded sheet or injection molded parts needing protection.

Cel-Span Specialty Additives

From pelletized internal mold release, and flame retardants to moisture scavengers and vapor corrosion inhibitors, we provide solutions to many specialty niches as well as other areas where unforeseen problems might arise.

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Process Aid 101

- 100% active internal lubricant for parts that stick inside the molds
- Eliminates the need to open molds.

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Process Aid 301

- Modified and highly loaded (15%) fluoropolymer process aid that helps reduce die buildup and swell
- Eliminates melt fracture in LLDPE and LDPE blends; contains primary and secondary stabilizers.

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Process Aid 305

- Powerful water-seeking concentrate additive used in Polyolefins, nylons and other hydroscopic resins.
- Eliminates lensing and porosity in blown/ cast extrusion film process as well as injection molding or extrusion.

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Process Aid 306

- Unique process aid that stabilizes and protects die from TiO₂ plate out and black specs from degradation.
- Enhances physical integrity allowing film manufacturers to down gauge without loss of physical or seal properties

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Process Aid 315

- Effective compatibilizer/ coupling additive with an additional stabilizing package.
- Ideal for use in applications where regrind or reprocessed resins laminate or dispersion of fillers is critical.

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Process Aid 606C

- Designed for polycarbonate to enhance flow characteristics of the resin and help with lower process temperatures.
- Lower temperature decrease cycle time and eliminates internal stress caused by the high process temperatures.

Cel-Span

FR 611

- Antimony and a brominated concentrate flame retardant for polypropylene applications.
- Recommended for electrical sockets, timers, and light fixtures along with other applications where a UL rating is required.

Cel-Span

FR 680

- 80% concentrate flame retardant
- Complies with Boston Fire Department Test and the NFPA – 701 small scale test

Cel-Span

VCI 720

- Multi-metal and nitrate free vapor corrosion inhibitor for polyolefins
- Meets Military specification PRF-22019E

Purge

Chemical Foaming Agent

Process Aids

Vapor Corrosion Inhibitors

PTFE Concentrates

Flame Retardants

Stabilizers

UV Stabilizers

Moisture Scavengers

Essential Oils

Antimicrobial



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