NPE2024 | MADE The Plastics Show | FOR YOU





Wednesday, May 8, 2024 • Panel Discussion



NPE2024 | MADE FOR YOU





Healthcare Industry Plastics Material Update

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Panel Discussion

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Chase Plastics

Technical Manager



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Ascend Performance Materials

Business Development Manager



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Syensqo

Sales Director Americas- Life Solutions



O1 Chase Plastics Healthcare Trends



Redefining Resin Distribution®

Chase Plastic Services, Inc., is a successful North American full-service thermoplastic resin distribution company headquartered in Clarkston, Michigan. We service large, medium and small size applications with major concentration on specialty and engineering thermoplastics.



Kevin Chase, CEO, and Carole Chase, Vice-President



Real service from real people

Outrageous Service: it's unheard of and rare in our industry — but it's what we pride ourselves on and it's the center of our Core Values. From real people answering the phone when you call to real engineers providing expertise on your floor when you're down, we're here to help you succeed. We're beholden to our Core Values that promote high expectations, independence, teamwork, execution, and character. Through these, you can expect accountability not only for our performance, but from the performance of our valued suppliers, so that you're receiving quality products when and where you need them, every time you place an order.

Redefining Resin Distribution

Real Flexibility

- Double- and triple-sourced materials
- Materials in stock, ready to be delivered
- Low minimum order size
- Blending and repacking services; custom labeling
- Core, general and custom stocking programs, including blanket orders, consignment, etc.
- Bilingual account managers, technical service, customer service, credit and logistics representatives

The industry's **broadest product line** featuring more than 35,000 specialty, engineering and commodity thermoplastics

Real Insight

- Corporate- and field-based technical service and technical development engineers
- Advanced inventory and supply chain management technology
- Technical service and technical development support in person and via phone, email or video
- Technically skilled sales professionals with engineering backgrounds
- Exclusive Chase the Knowledge webinars and blog
- ▶ ISO 9001:2015 Certified

Technical Insight through our dedicated Technical Engineering Team

Real Responsiveness

- Quickest written responses to quote requests in the industry
- 2-hour callback commitment
- Same-day shipping for in-stock materials
- Global supply and distribution network with 32 strategically located warehouses throughout North America
- Chase Plastics de Mexico with centralized warehouses in Querétaro, Monterrey and Juárez



Real Dedication

- Privately owned and operated by the original 1992 founders, Kevin and Carole Chase
- Commitment to partnership through an in-depth understanding of our customers' evolving businesses, processes, and products
- A knowledgeable, dedicated account manager in your area
- Continuous evaluation and expansion of our supplier base and warehouse network
- Net Promoter Score = 95%
- Customer Satisfaction Rating = 97%

Dedicated account teams comprising sales, customer service, credit, engineering and supply chain management professionals for each customer, from day one!

Chase Plastics Technical Development Support

Material selection

Choosing the best material for a new or existing application can be difficult. Our team specializes in finding the ideal product that fits the needs of the application and our customer.

Processing assistance

Whether over the phone, via video chat, or in person, we are prepared to help get your processes and materials running smoothly and efficiently. From prototype runs to troubleshooting, our engineers can provide insight on optimizing various thermoplastic processes.

Design review

With years of processing experience, the Chase technical team can offer critical advice on part and tool design to help ensure manufacturing ease and failure avoidance.

Parts and materials testing

By partnering with accredited labs all throughout North America, we are ready to tackle your mechanical, chemical, and physical testing needs.

Metal-to-plastic conversions

Increasing complexity and calls for lighter parts continue to push the boundaries of metal component replacements with plastic. Allow us to bring experience and a broad engineering thermoplastic portfolio to find a durable alternative to metal.

Educational training

The Chase technical team has the information, knowledge and willingness to educate our valued customers on products and processing for continuous improvement. These events can be customized around your team's needs at your facility, our headquarters, or an independent site.

Access to technical tools

Regulatory Approval Details - UL, Automotive, FDA, NSF, USP Class VI, REACH/RoHS/California Prop 65, Conflict Minerals

- Data Sheets and Processing Guides
- Safety Data Sheets (SDS)
- Product certifications
- Product brochures and chips/plaques



Chemical Resistance and Sterilization

Post-COVID Era Disinfectant Utilization

- More Chemicals and Higher Frequency of Cleaning
- Sani-Cloth®, CeviWipes, Virex®, Isopropyl Alcohol, etc.
- Environmental Stress Cracking (ESC) performance being measure to show suitability of various polymers
- CTQ's of Interest: Aesthetic consistency, impact retention, FR needs, overall structural performance



- Steam Sterilization (Autoclave)
- E-Beam
- Gamma
- Ethylene Oxide (EtO)
- Time and temperature of exposure and timeliness of use after sterilizing will all be contributing factors to the polymer selected.





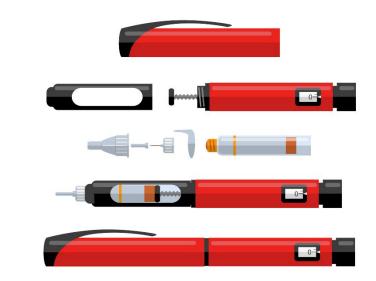
Drug Delivery and Diagnostic Opportunities

- Application Requirements:
 - Extremely Tight Tolerance control for consistent dosage
 - Lubricant needs for ease of patient use without strain
 - Bonding capabilities to assembly and sealing functionality
 - Colorability of certain components for branding purposes
 - Clarity in certain parts to see dosage levels
 - High degree of chemical resistance.

Compatibility with printing/stamping for decoration and

labeling







Innovation Through Design

Thin Wall Molding While Maintaining Stiffness

Assembly
Consolidation in
Plastics vs Metals

Next Generation
Displays and
Monitoring









NPE 2024

Eric Mueller

Business Development Manager

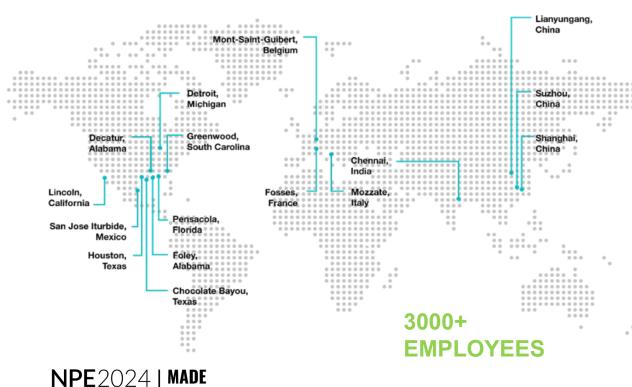


Ascend Overview

At a glance

The Plastics Show

We make high-performance materials for everyday essentials and new technologies. Our purpose is to improve the quality of life today and inspire a better tomorrow.



Our markets



Participants in

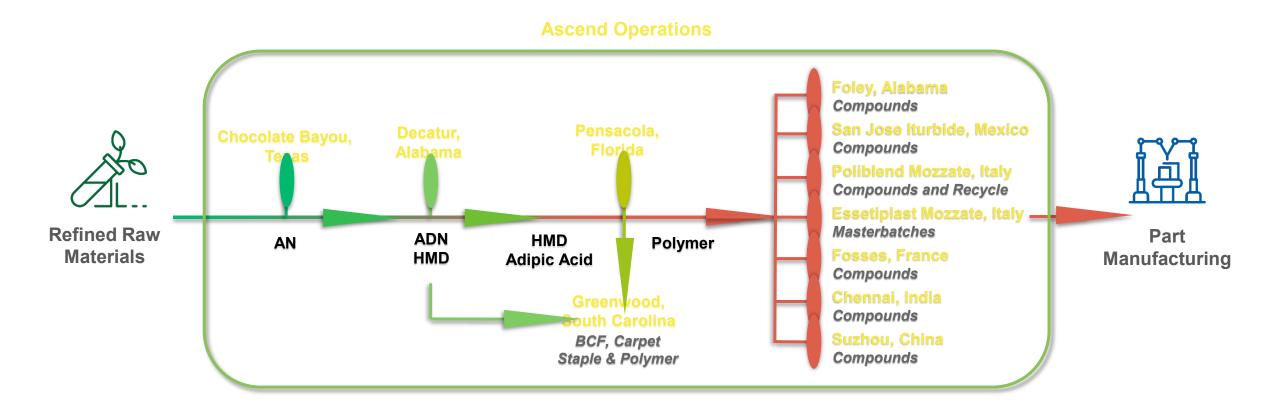






Global excellence, local service

Ascend is the world's largest fully-integrated PA66 manufacturer





IHIIDURA MED

- Our solution for direct contact applications in health care
- High-performance polyamide 6,6 produced under the highest quality standards. Current portfolio includes neat, impact modified, and glass filled products.
- Our materials are:
- ISO 10993-5 & -10 compliant
- BSE/TSE, REACH, RoHS compliant
- USP Class VI certified*

PARTNERSHIP

Years serving the industry through our distribution partners

RELIABILITY

Control raw materials and operations

Packaging

QUALITY

New certifications in place and process controls





Surgical Instruments





Medical Durables

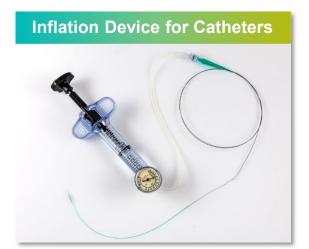


Drug Delivery



Where can we help today?





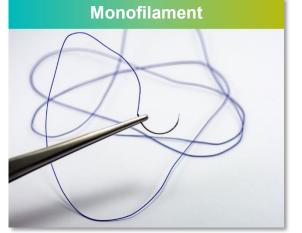
















Proprietary & Confidential



Benoit Verdickt

Syensqo is a market leader in Materials & Consumers

MARKET POSITION

#1

High-performance polymers; leading position in thermoplastic composites

Battery Materials, Thermoplastic composites, Green Hydrogen, Renewable materials & Biotechnology

#2

Materials for civil aerospace

#1

Materials for defense

#2

Specialty surfactants and polymers

#1

Flavors & Fragrances; Natural Vanillin



Mining reagents



Biocides for recycled water

€7.9bn

Net Sales

€1.9bn

Underlying EBITDA

23.6%

Underlying EBITDA Margin

13,200

Employees

12

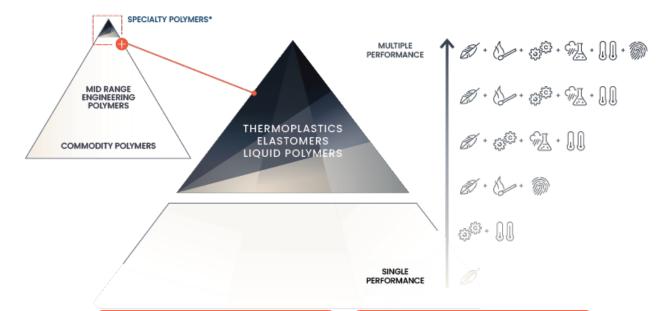
Major R&I Centers

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Industrial Sites



Industry leader in specialty polymers Tiny molecules, huge impact





Fire resistance



Mechanical performance



Resistance to harsh environments



Broad range of temperature



Surface properties

Advanced Lightweighting Solutions

TegraLite™

Composites

Biomaterials for Implantable Devices

Solviva® Biomaterials

- Eviva® PSU
- Veriva® PPSU
- 7eniva® PFFK

Films

Ajedium™ Films

Fluorinated Elastomers

Tecnoflon® FKM

Fluorinated Fluids

Fomblin® HC PFPE Galden® PFPE

Fluoropolymers

Algoflon® PTFE Halar® ECTFE Solef® PVDF

Functional Fluids

Fluorolink® PFPE

Liquid Crystal Polymers Xydar® LCP

Polyamide-imides
Torlon® PAI

Polyamides, Aromatic

Amodel° PPA Ixef° PARA Kalix° HPPA Omnix° HPPA

Polyketones, Aromatic

AvaSpire® PAEK KetaSpire® PEEK

Polyphenylene, Sulfide Ryton° PPS

Polyvinylidene Chloride
Diofan° PVDC
Ixan° PVDC Extrusion Resins

Specialty Materials

Aquivion® PFSA Long Fiber Thermoplastics Solvene® EAP

Sulfone Polymers

Radel[®] PPSU Udel[®] PSU Veradel[®] PESU

Materials for Healthcare



High-Performance Plastics

No patient contact Applications

- KetaSpire® PEEK
- Radel® PPSU
- Udel® PSU
- Veradel® PESU
- Ixef® PARA
- Amodel® PPA



High-Performance Medical Grade Plastics

Limited exposure < 24 hours BioPharma (USP Class VI)

- KetaSpire® PEEK
- AvaSpire® PAEK
- Ixef® PARA HC and GS
- Radel® PPSU
- Udel® PSU
- Veradel® HC PESU



Solviva Biomaterials for Implantable Devices

Prolonged exposure, 24 h - 30 d Permanent exposure > 30 days

- Zeniva® PEEK
- Veriva® PPSU
- Eviva® PSU

Market trends shaping polymers in medical space









Market Trends

Connectivity, automation and miniaturization

Cost control in the industry

Sustainability

Changes in regulatory **Environment**

Syensqo Responses

Dependable Global Regulatory Support

State-of-the-Art Technical Services and continuous new data generation

Broad range of material recommendations

Innovation in material performance and sustainability profile

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SYENSQO approach to Sustainability



Manufacturing

- 65% SYENSQO sites using 100% renewable purchased electricity
- Carbon Neutral scope 1&2 by 2040



- SYENSQO ECHO portfolio with recycled/bio content materials
- Mass Balanced Sulfone Grades for Healthcare



- Ongoing projects, including:
- Single Use Instruments (Ixef® PARA)
- Udel® PSU in Medical Applications

