



SPEAKERS



Dave Worrall is account manager, Americas, for Colorant Chromatics™ high performance polymers at Avient Corporation. He is responsible for the sales of both the Colorant Chromatics brand of fluoropolymers and high-performance polymer colorant and additive solutions. He has a diverse background with more than 20 years of sales and leadership experience, and has worked across a number of industries.

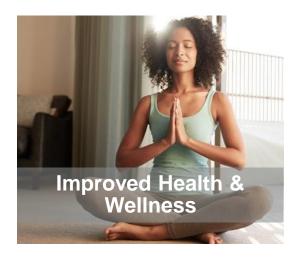


Jiao Guo is the ADTS engineer for Colorant Chromatics[™] highperformance polymers at Avient Corporation. She is responsible for the application development and technical support for high-temperature polymers in North America, bridging the gap between customer market needs and internal technology competence. She gains rich experiences by working in various roles in technology from R&D to quick customer response. She has an in-depth understanding of the individual value chain within the polymer industry from resin supplier to OEM.

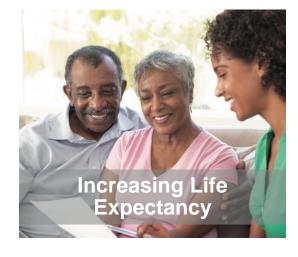


TRENDS IN HEALTHCARE

SHAPING INNOVATION & SOLUTIONS







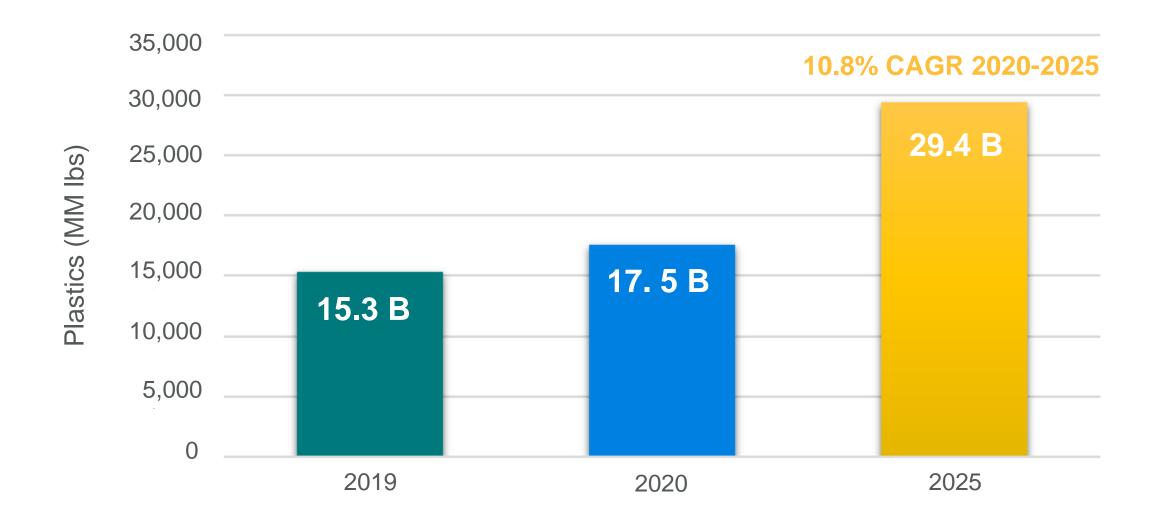






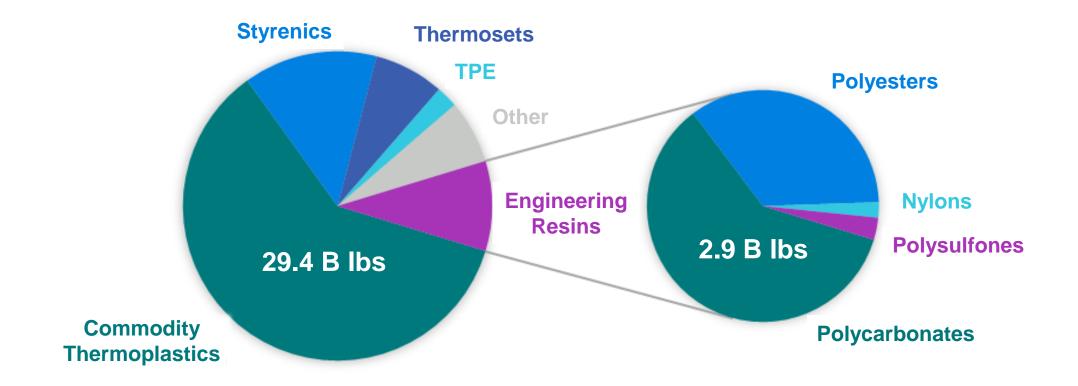


GLOBAL HEALTHCARE PLASTICS MARKET





GLOBAL HEALTHCARE PLASTICS MARKET



Polysulfones are expected to grow to 85 MM lbs with a CAGR of 11% by 2025



TYPICAL APPLICATIONS

REQUIRING COLOR SOLUTIONS



SURGICAL INSTRUMENTS



MEDICAL EQUIPMENT **COMPONENTS AND IVD**



BIOPHARMA PROCESSING AND LIFE SCIENCES



OTHER

High performance and pleasing aesthetics are key



ADVANTAGES

SULFONE POLYMERS IN HEALTHCARE APPLICATIONS



Thermal and chemical resistance

- Extended product life
- Expanded reuse to support sustainability
- Sanitization flexibility with autoclave, steam, solvent

Amorphous / transparent resin

Opaque and transparent options

Supply flexibility

Multiple raw materials and suppliers in the market



CHALLENGES

SULFONE POLYMERS IN HEALTHCARE APPLICATIONS

Natural amber color

- Broad range of amber from various sources and grades of base resin
- Batch-to-batch color variation

High processing temperature

- Requires more specific and advanced colorant and additives
- Color changes due to thermal history from processing

Initial raw material cost

Up to high performance polymer range





MARKET NEEDS

WHEN ADDING COLOR



- Provide a clean appearance
- Achieve more vibrant colors
- Access a breadth of color options
- Secure a balanced performance with color
- Ensure security with biological evaluation and testing
- Withstand high processing temperatures and harsh cleaning agents
- Manage market dynamics and inventory



RESPONDING TO MARKET NEEDS

Colorant and additive solutions

- Thermal stability
- Regulatory compliance

Process profile

 Optimized machine setup and parameters for best performance

Material handling

 QC for each step from raw material reception through shipping

Service

• Flexible order size and timely technical support



NEXT GENERATION SOLUTIONS

TRANSCEND™ PREMIER HEALTHCARE COLORANTS

- Brilliant, aesthetically pleasing colors
- Variety of choices for enhanced product design with processing flexibility
- ISO 10993 biocompatible









NEXT GENERATION SOLUTIONS

TRANSCEND™ PREMIER HEALTHCARE COLORANTS

Solutions

Current

Next Up

Brilliant, vibrant colors

26 standard colors, 7 transparent colors

Customized colors











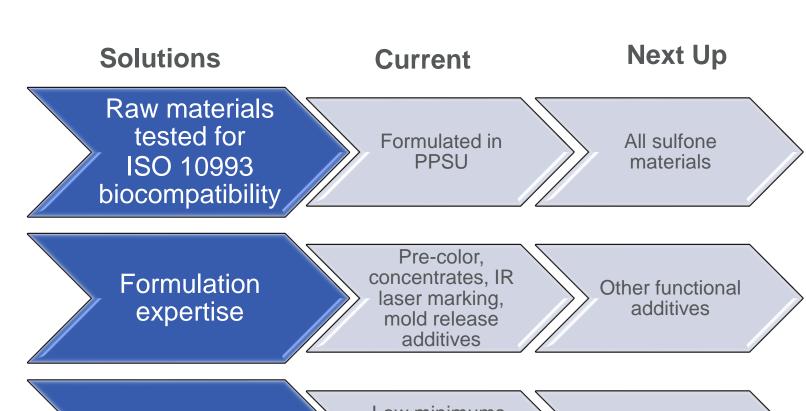
NEXT GENERATION SOLUTIONS

TRANSCEND™ PREMIER HEALTHCARE COLORANTS











Low minimums, customized solutions, tech support

Advanced device design support



SURGICAL INSTRUMENT OEM TIBIAL TRIALS

AVIENT SOLUTION

Transcend™ Premier Healthcare Colorants

WHY AVIENT?

- Delivered a variety of bright, differentiating color choices
- Maintained excellent mechanical performance after repeated steam sterilization and harsh chemical cleaning
- Offered low MOQ with flexible supply

LEARN MORE





- Offered in various colors for ease of brand identification and sizing differentiation
- Able to withstand repeated steam sterilization and chemical disinfection
- Available in low minimum order quantities (MOQ)

AESTHETICS + PERFORMANCE

SURGICAL INSTRUMENT OEM

DENTAL SCALER

AVIENT SOLUTION

Transcend™ Premier Healthcare Colorants

WHY AVIENT?

- Achieved a clean, bright white color that provided a more pleasing experience for patients
- Allowed scaler to be laser marked for brand identification
- Met the need for impact resistance and successfully passed the drop test requirements

LEARN MORE



- Attain an extreme white color to appear hygienic and aesthetically pleasing
- Ability to laser mark the brand
- Maintain impact resistance

THE NEW AVIENT

ABOUT US



8,700 employees worldwide



35,000+ solutions



\$4.8 billion in sales



115facilities in35 countries

OUR SUSTAINABILITY MISSION

ENABLE OUR CUSTOMERS' INNOVATION AND SUSTAINABILITY GOALS THROUGH WORLD CLASS PRODUCTS AND SERVICES AND EXCELLENCE IN THE FOUR CORNERSTONES OF:

PEOPLE PRODUCTS PLANET PERFORMANCE



"Imagination is more important than knowledge.
The important thing is to never stop questioning."
(Albert Einstein)

THANK YOU!

QUESTIONS?

Dave Worrall Avient Corporation

Dave.Worrall@avient.com

Jiao Guo
Avient Corporation

Jiao.Guo@avient.com

