# The Right Mix



Better together: Blending our expertise for you

## **Sustainable Solutions for Flame-Retardant Applications**

Meeting safety, environmental, and cost goals with XYRON™ 540Z

### **Geographic location: Global**

#### CUSTOMER CHALLENGE:

A leading small engine component manufacturer struggled to replace their flame-retardant polypropylene (FR-PP) material due to:

- · Regulatory Pressure: Compliance with PFAS-free and halogen-free requirements.
- · Safety Standards: Achieving ULV0 or UL5V certifications.
- Thermal Performance: Meeting high RTI (Relative Thermal Index) demands.
- · Cost Constraints: Reducing material costs while maintaining quality.

The manufacturer needed a sustainable, high-performance, and cost-effective material that met all requirements.

#### **ACTION TAKEN:**

- Material Analysis: Recommended XYRON 540Z for its low density, high HDT, and regulatory compliance.
- Regulatory Expertise: Supported certifications and adherence to global safety standards.
- Cost Optimization: Demonstrated savings through reduced material density.
- Collaborative Innovation: Delivered rapid testing and tailored solutions.
- Supply Chain Support: Ensured timely delivery and scalability.

#### RESULTS

The transition to XYRON<sup>™</sup> 540Z resulted in:

- Enhanced Performance: Achieved ULV0/UL5V certifications and reliable thermal stability.
- Cost Savings: Reduced material usage and total costs.
- Regulatory Compliance: Seamless adherence to PFAS-free and non-halogen standards.
- Broader Applications: Positioned for use in advanced battery, electronics, and engine designs.

#### Featured Product: XYRON<sup>™</sup> 540Z

Discover how we can help you overcome your material, process, and application challenges.







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