

# STRUCTURAL SOLUTIONS

THERMOCOMP™, THERMOTUF™, VERTON™ COMPOUNDS &  
CYCOLOY™ RESINS

# STRUCTURAL SOLUTIONS

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The Structural portfolio is based on a variety of thermoplastic resins in combination with different reinforcements and fillers like glass fiber, glass beads, minerals, and carbon fiber. In addition we can add a variety of modifications for flow, release, impact and flame retardant.

Structural compounds are reinforced compounds, that provide improved dimensional stability over standard unmodified thermoplastics, while mechanical properties like stiffness and strength are enhanced. Also the heat capabilities are improved, together with better long term properties like fatigue and creep. In most cases good surface aesthetics can be provided and improving mechanical properties allow customers to reduce the weight of their products by designing thinner wall parts



## VALUE PROPOSITION

- Strength and Stiffness
- Metal replacement and metal/plastic hybrid
- Better fatigue and creep resistance
- Improved dimensional stability and low CTE
- Good surface in glass fiber filled parts
- Nano Molding Technology (NMT)
- Large Format Additive Manufacturing
- High modulus, can help the customer reduce the weight of their product by the ability to design thinner wall parts

## POTENTIAL INDUSTRIES & APPLICATIONS

**CONSUMER ELECTRONICS:** Housing, cover and frame in notebook / tablet / mobile phone; Printer chassis; Antenna splitter; MP internal speaker/receiver housing; Audio housing; Base Station PCB Latch; DVD Tray

**AUTOMOTIVE:** Transmission Bearing Cages; Gear / Bearing / Slider; Truck exterior; Truck interior panel; Auto mirror; Door trim

**HEALTHCARE:** Surgical Instrument; Tray Sterilization; Cardiovascular Pulse / EKG; Lab ware; Lab Equipment; HC Infrastructure; HC Fluid Delivery; HC Drug Delivery

**BUILDING & CONSTRUCTION:** Valve; bump housing; Air Conditioner cover; Air Filtration housing; Lawn/Garden, Traffic Management; Motor Way Rail; Building Component

**ELECTRICAL & LIGHTING:** Telecom/Data Connector; Electrical Interface devices; Indoor Enclosure; Aerospace Connector

**MASS TRANSPORTATION:** Aircraft seat arm rest; Aircraft seat tray supporter; Aircraft internal parts

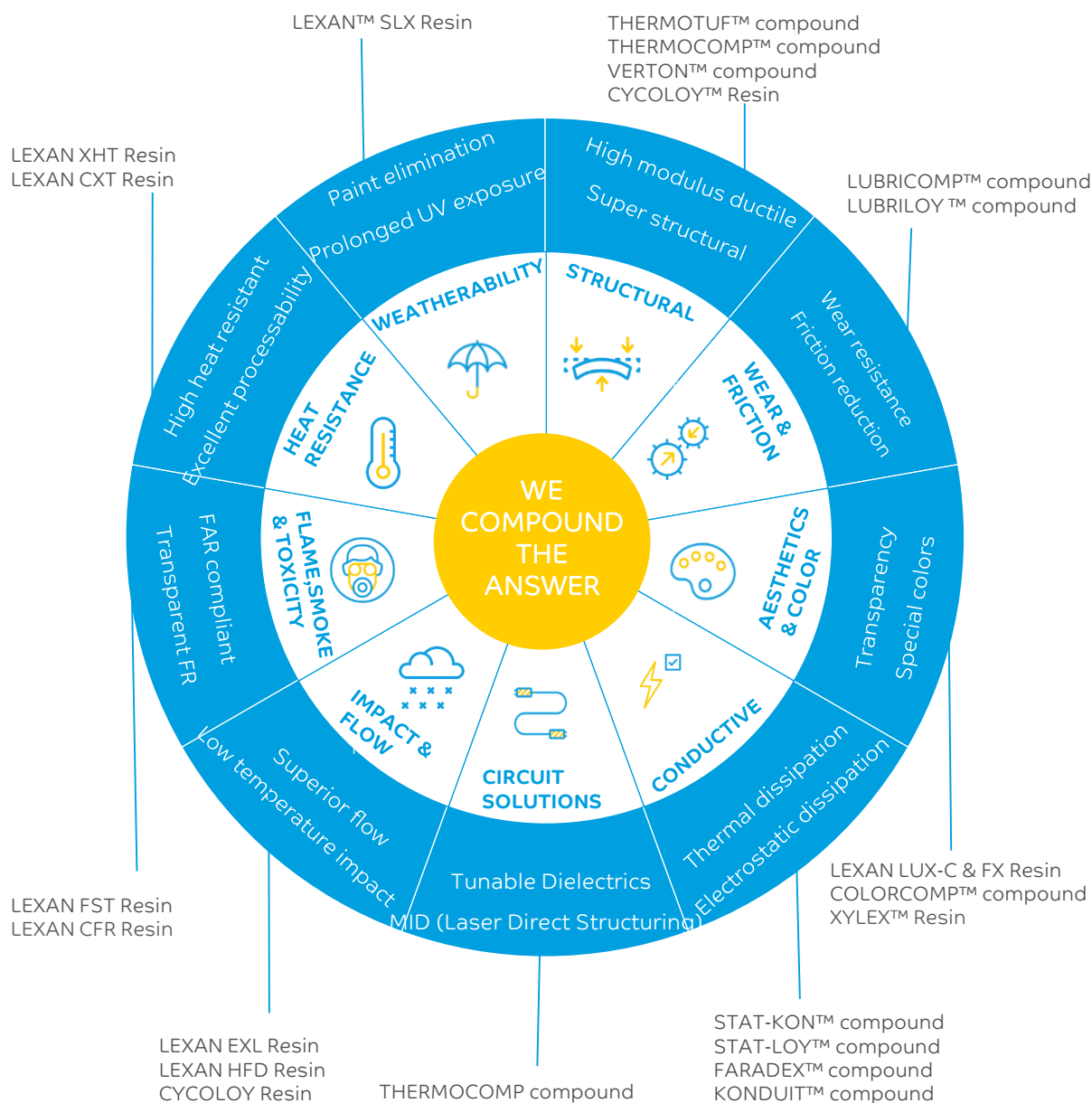
**CONSUMER:** Washing machine; Electric Shaver; Refrigerator component; Dishwasher component; Chair; ATM cladding / door; Exercise component

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CHEMISTRY THAT MATTERS™



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