

# SOLUTIONS FOR INDUSTRIAL FANS AND IMPELLERS

SABIC specialty compounds can offer diversified material solutions for industrial fans and impellers answering to a variety of industry needs as **weight reduction** (metal replacement), **higher rotation speed** (over 70K rpm), **special effects** (antistatic, electrical conductivity) and **energy efficiency**.

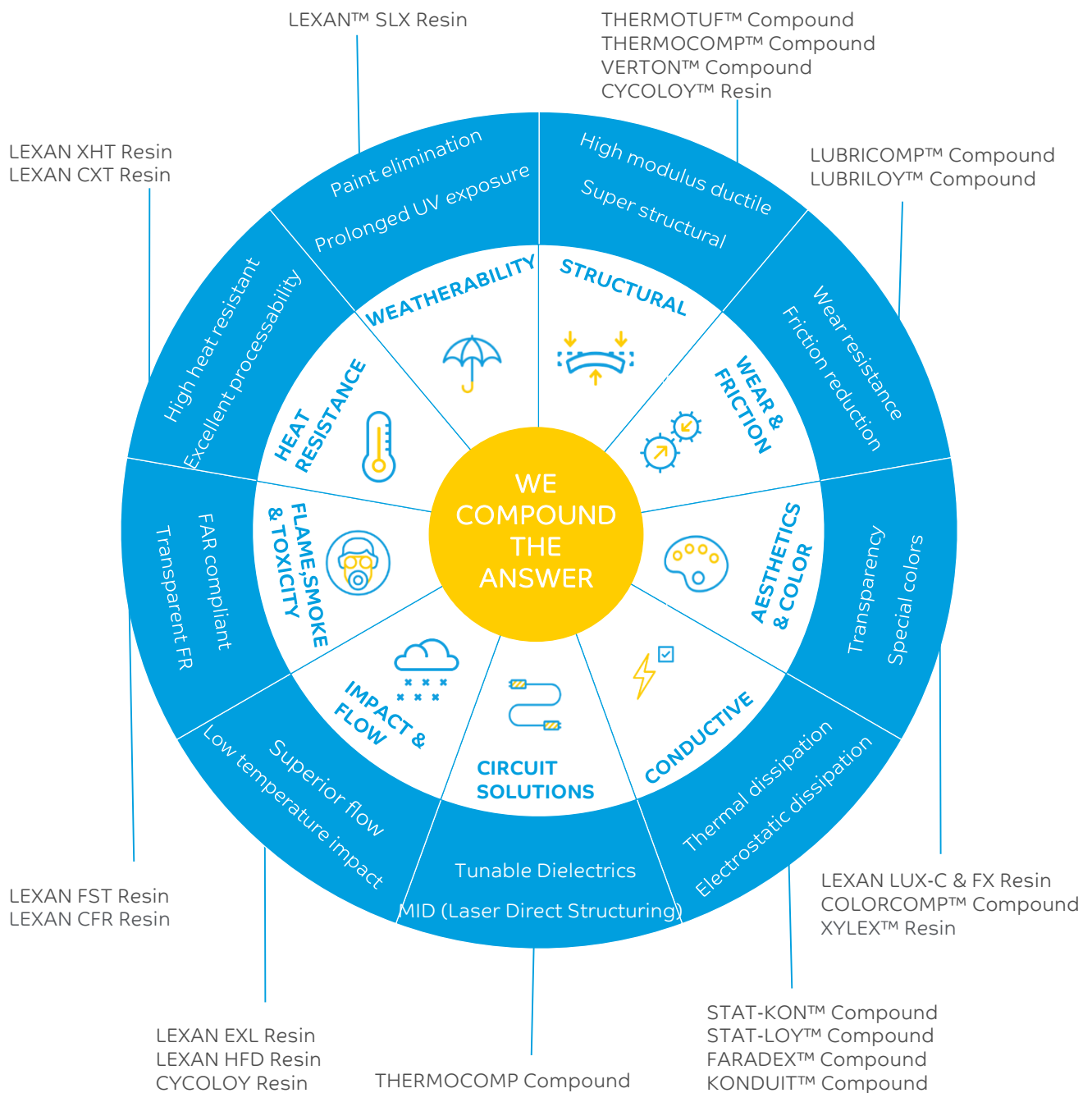
Possible applications include **ATEX compliant** axial/centrifugal impellers, permanent antistatic axial fans and high speed blowers.



INDUSTRY NEEDS	MATERIAL SOLUTIONS
 <b>DIMENSIONAL STABILITY</b> +  <b>ELECTRICAL CONDUCTIVITY</b>	<b>STAT-KON™ Compounds</b>  Surface resistivity values between $10^3 - 10^9 \Omega/\text{sq}$ Low shrinkage + Dissipative Structural
 <b>DIMENSIONAL STABILITY</b> +  <b>PERMANENT ANTISTATIC</b>	<b>STAT-LOY™ Compounds</b>  Surface resistivity values between $10^{10} - 10^{12} \Omega/\text{sq}$ Low shrinkage + Permanent antistatic Colorable
 <b>HIGHER FATIGUE RESISTANCE</b> +  <b>HIGHER STIFFNESS</b>	<b>THERMOCOMP™ Compounds</b> <b>VERTON™ Compounds</b>  Flexural Modulus (2 mm/min) of 33.8 GPa Improved stiffness and fatigue resistance Carbon fiber and long glass fiber reinforced.
 <b>CHEMICAL RESISTANCE</b> +  <b>WEATHERABILITY</b>	<b>THERMOCOMP™ Compounds</b> <b>LEXAN™ Copolymers</b>  Improved chemical resistance especially against Sodium chloride and ammonia vapours Availability of UL94 F1 and F2 grades

# SPECIALTY COMPOUNDS & LEXAN™ COPOLYMER RESINS

Over 50 years of innovation in thermoplastic compounding enables SABIC's specialty compounds to offer extensive materials with a broad portfolio.



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