

THERMOCOMP™ COMPOUNDS FOR DIELECTRIC SOLUTIONS

LNPTM THERMOCOMP compounds portfolio contains thermoplastic injection molding materials that offer low Dissipation Factor (D_f) for improved signal gain and longer reading distance paired with tailor made Dielectric Constants (D_k) to fine tune or detour a signal direction supporting innovative antenna designs. Beyond that, THERMOCOMP compounds allow further antenna miniaturization and the design of phase shifters with higher productivity through combined high D_k and low D_f material properties.

TYPICAL INDUSTRY REQUIREMENTS:

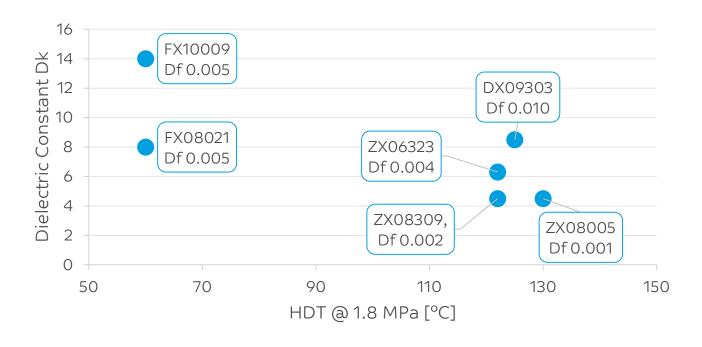
- Materials for individual antenna design to fine tune or detour signal direction
- Improved signal gain and longer reading distance through less signal attenuation
- Miniaturized antenna solutions with sufficient signal strength for 5G technology
- Improved mechanical performance versus Epoxy or Ceramics in more complex designs for less maintenance through longer lifetime



TYPICAL MATERIAL CHARACTERISTICS:

- Tailored Dielectric Constant D_k
 by customized compound formulations
- Very low Dissipation Factor D_f for lower signal absorption, less signal scattering
- Combined high D_k and low D_f with very high signal transmission density
- Sufficient flowability for thin wall design, improved ductility, dimensional and dielectric stability versus current solution

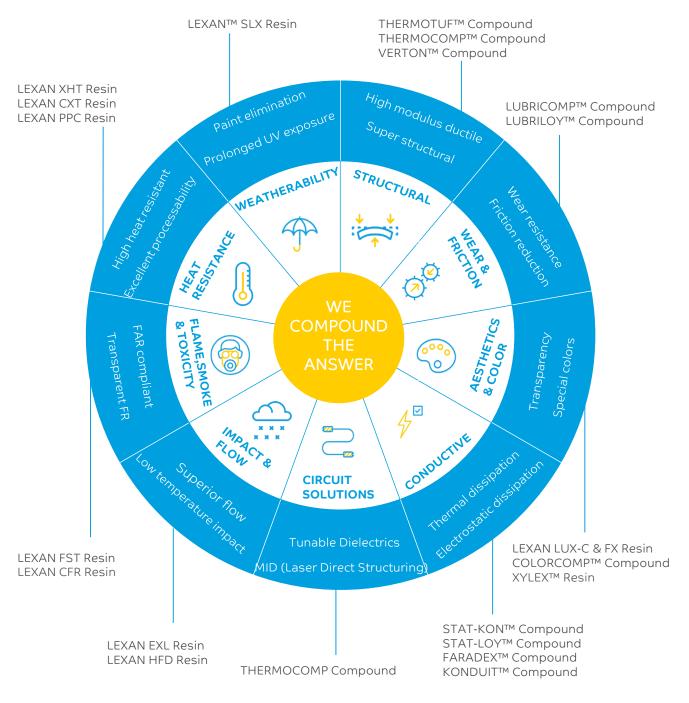
TYPICAL PROPERTIES OF THERMOCOMP COMPOUNDS FOR DIELECTRIC SOLUTIONS:





LNP™ 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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