

## PROVIDING MATERIALS AND TECHNOLOGY SOLUTIONS FOR POINT OF CARE CONNECTED DEVICES

The need for improved chemical resistance and long-term durability is an important factor for point of care devices. Hospitals, labs and healthcare providers will continue to use aggressive cleaners to ensure patient safety and provide protection from virus and disease. Using advanced thermoplastics can help improve the performance of your medical device and enhance your design. Our materials can also help you address industry requirements such as biocompatibility, formulation lock, compatibility with disinfectants and long-term durability.

SABIC's Specialties business provides a wide range of healthcare solutions that offer biocompatible materials, improved chemical resistance, healthcare color packages, autoclavability at 121 °C and 134 °C and long-term durability. We support our materials with value-added services, including design support, mold-flow analysis, testing and predictive engineering capabilities, which are available for each step of your application development process.

### TOP COVER & BEZEL:

**LNPT™ ELCREST™ CRX resin**  
**LNPT™ ELCRINT™ resin**

- Improved chemical resistance
- Excellent impact strength
- Light weight
- Sustainability driven offering

### DIELECTRIC & EMI SHIELDING SOLUTIONS:

**LNPT™ THERMOCOMP™ compound**  
**LNPT™ FARADEX™ compound**

- Wide range of dielectric properties
- Tunable signal strength
- EMI / RFI shielding

### FLEX BOARDS & CONNECTORS:

**ULTEM™ resin**  
**LNPT™ THERMOCOMP™ compound**

- Dielectric properties
- Laser Direct Structuring (LDS)
- Thin films

### TOUCH SCREEN & DISPLAY

**LNPT™ ELCREST™ DMX copolymer resin**

- Scratch resistance
- Clear and transparent
- Light weight

### MOVING COMPONENTS & INTERFACES:

**LNPT™ LUBRILOY™ compound**  
**LNPT™ LUBRICOMP™ compound**

- Lubricated properties
- Low friction and wear
- Toughness and durability

### CHASSIS & STRUCTURAL COMPONENTS:

**LNPT™ THERMOCOMP™ compound**

- Metal replacement
- High strength & modulus
- Flatness & dimensional stability

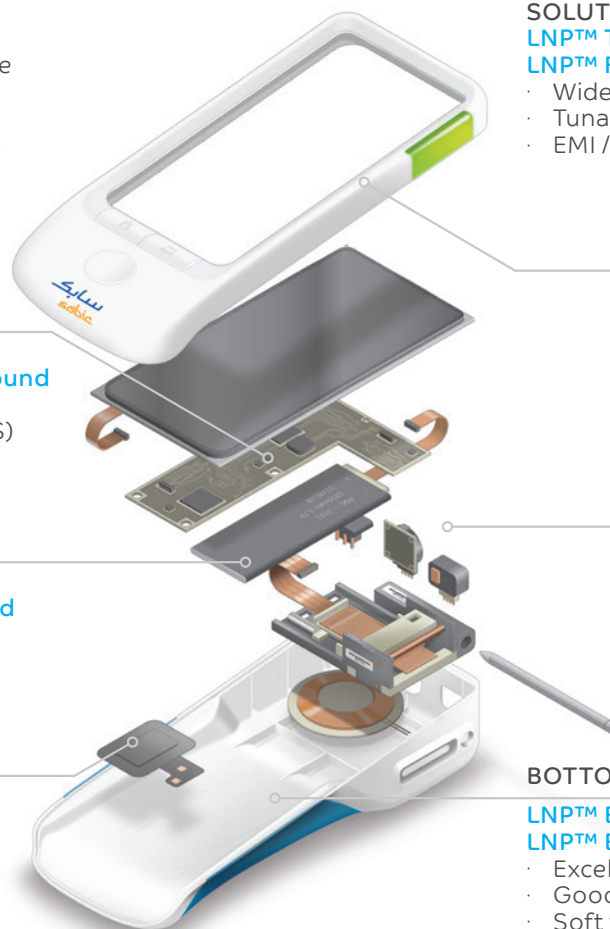
### WIRELESS CONNECTIVITY:

**ULTEM™ resin**  
 · Dielectric properties  
 · RF transparency

### BOTTOM HOUSING:

**LNPT™ EXL copolymer resin**  
**LNPT™ ELCRINT™ resin**

- Excellent impact strength
- Good chemical resistance
- Soft touch compatibility
- Sustainability driven offering



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# PRODUCT LINE CARD

## **ULTEM™ resin**

### **PEI**

- High heat resistance to 221 °C
- Superior unfilled strength and stiffness
- Great isotropic dimensional stability
- Excellent UV, hydrolytic and chemical stability
- Near infrared transparency
- Robust electrical & dielectric properties
- Inherent flame retardancy / low smoke generation
- Outstanding optical properties
- Mirror-like, direct vacuum metallization

## **LNP™ LUBRICOMP™ & LUBRILOY™ compounds**

- Inherent lubricity through a broad range of lubricants
- Can help extend product life and reduce friction and wear rates of plastic parts
- Based on more than 25 engineering thermoplastics
- Broad range of attributes including excellent dimensional stability, low wear, enhanced mechanical and thermal properties, flame retardancy and fatigue endurance
- Flame retardancy, non-Br & Cl FR compounds
- Colorability, wide range of opaque colors
- Eliminates secondary lubrication which helps reduce cost
- Can provide design freedom, part consolidation and improved production economies

## **LNP™ ELCRIN™ resin**

### **Sustainability driven solution utilizing ELCRIN iQ upcycling technology; offering similar chemical resistance performance compared to virgin PBT compounds**

- Better carbon/energy footprint
- Recycled content certified by SCS Global
- Comparable properties to virgin PBT and wide color space
- Food contact compliance options possible
- Healthcare management of change policy

## **LNP™ ELCREST™ DMX copolymer resins**

- Transparency and clarity
- UV stabilized
- Improved scratch resistance compared to homopolymer PC

## **LNP™ ELCREST™ CRX copolymer resins**

- Chemical resistance
- Biocompatibility
- Enhanced mechanical, optical, thermal and weathering properties.
- Scratch resistance, stiffness, heat resistance
- Environmentally conforming flame retardancy

## **LNP™ EXL copolymer resin**

### **High impact PC/Siloxane**

- Excellent low temperature impact resistance
- Weatherability
- Improved chemical resistance
- Excellent processability
- Impact resistance retention upon long term heat and humidity aging
- Non-Br & Cl FR grades
- Wide range of colors including VISUALFX™ resin
- Excellent laser weldability

## **LNP™ THERMOCOMP™ compounds**

### **Structural materials**

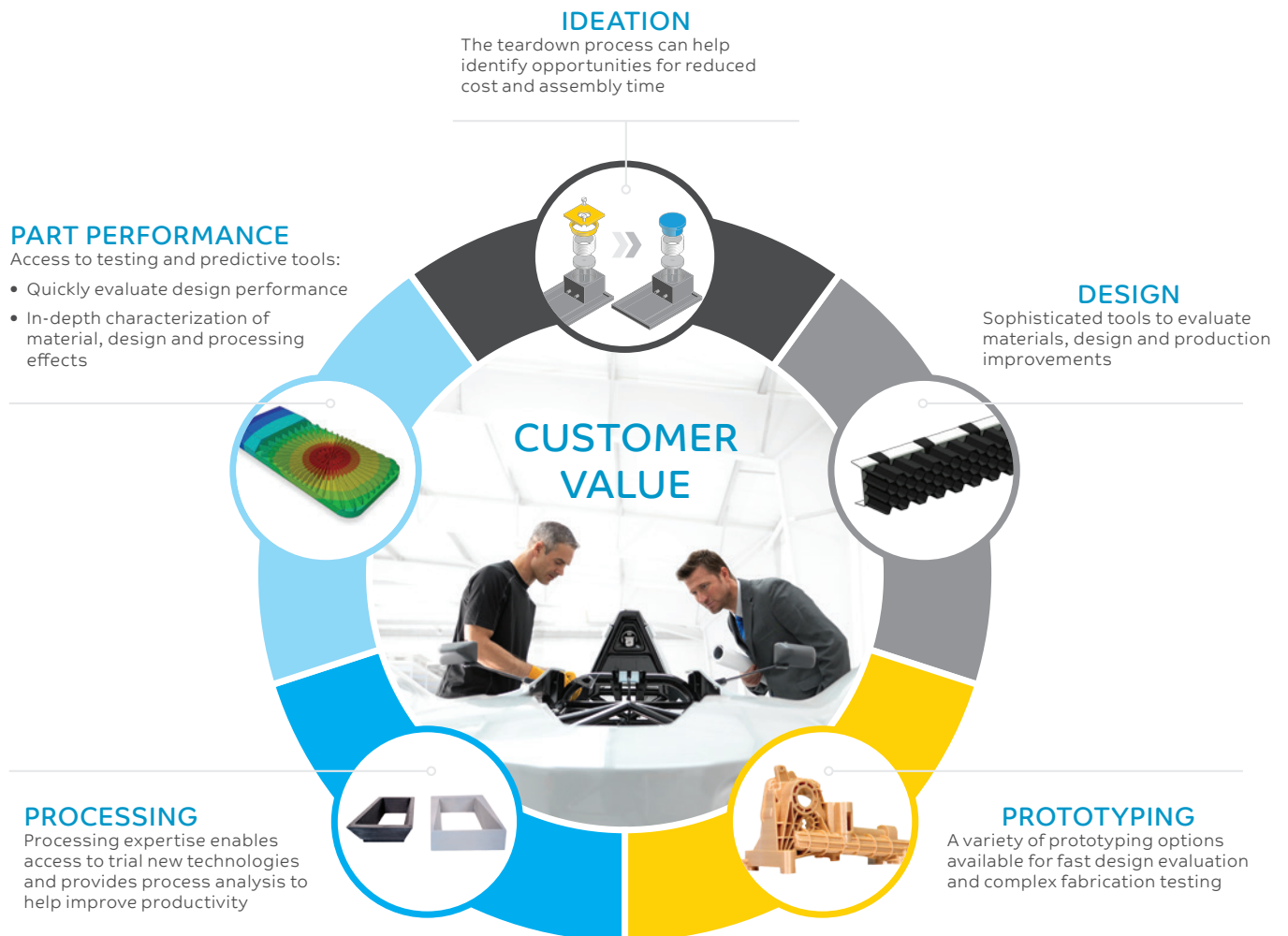
- Superior filled strength and stiffness
- Closely-tuned engineering attributes including strength, stiffness, chemical resistance, flow properties, and dimensional stability
- More than 25 different base resins, including ULTEM™ resin, PEEK, PA, PPS, and melt processible fluoropolymers
- Reinforcing additives including glass fiber, carbon fiber, glass beads and various minerals
- Colorability for improved aesthetics
- Laser Direct Structuring (LDS)
- Flame retardancy, Non-Br & Cl FR compounds

## **LNP™ FARADEX™ compound**

- Deep attenuation EMI/RFI shielding capabilities between 40-60 dB and higher from 30-1000 MHz
- Electrostatic discharge (ESD) control
- Mechanical properties similar to unfilled base resins
- Flame retardancy, non-Br & Cl FR compounds
- Eliminating secondary spray coating or attachment of conductive fabrics
- Conductivity permeates the entire part

# BRINGING VALUE TO CUSTOMERS

Our unique capabilities create opportunities for improved efficiency, material performance and productivity





## CONTACT INFORMATION

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**SABIC MATERIAL FINDER**  
Find the right Specialties material  
for your application ►



MEDICAL DEVICES

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