

# Proven NHFR solutions for E&E devices

## CHALLENGES

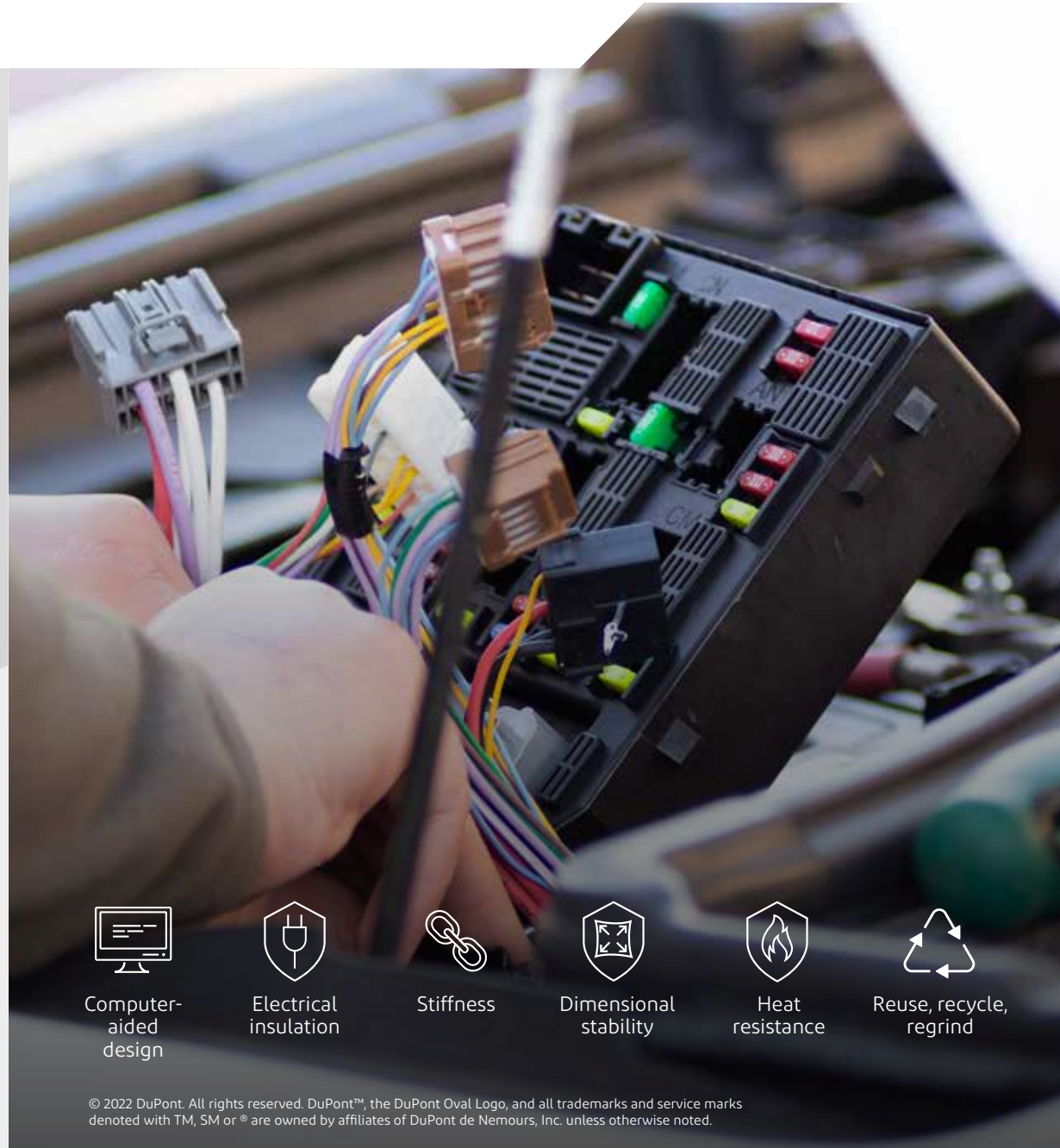
- In view of many well-publicized incidents of electrical fires such as those generated by electric motors used in tumble driers and washing machines, the safety and environmental requirements for plastic and elastomeric materials used by the electrical and electronic (E&E) industry have become much more exacting, and have driven the demand for non-halogenated, fire-retardant (NHFR) materials.
- Many plastics and elastomers traditionally used in products such as LED lighting, connector systems, circuit breakers and other electrical components are less able to meet all these requirements, either because they are not regulation-compliant, or do not satisfy the latest high performance needs, or both.

## REQUIREMENTS

- Electrical market OEMs are now focusing their efforts on developing efficient new regulation-compliant products without compromising on performance, safety and cost.

## SOLUTIONS

- **Crastin® NHFR** solutions offer excellent electrical insulation properties and electric strength plus a balance of stiffness, toughness, dimensional stability, heat and moisture resistance and surface finish, making them particularly well-suited for connectors, electrical components, circuit breakers and distribution boxes.
- **Hytrel® TPC-ET** balances the flexibility of high performance elastomers with the strength and processability of thermoplastics, combining resilience, heat and chemical resistance and durability to outperform typical flexible PVC compounds in tensile strength, elongation, and low temperature toughness.
- Stiff UV-resistant **Rynite®** resin unites the best properties of reinforced PET to bring enhanced durability and electronic performance.
- Versatile **Zytel® HTN** PPA and PA66 NHFR resins represent the E&E industry's broadest portfolio of NHFR engineering polymers.



Computer-aided design



Electrical insulation



Stiffness



Dimensional stability



Heat resistance



Reuse, recycle, regrind