

# PRIMERLESS IN- AND ON-LINE PAINTING

## CONDUCTIVE NORYL GTX™ RESINS

### Design with confidence

Inherently conductive NORYL GTX™ resins offer automotive OEMs design advantages with large, high-precision body panels and complex fenders by allowing for existing process integration including high-heat on-line painting systems.... all while providing outstanding aesthetics and performance.

NORYL GTX conductive alloys of polyphenylene ether (PPE) and polyamide (PA) decrease the coefficient of thermal expansion (CTE) by up to 20 to 40 percent vs. previous grades, allowing for increased dimensional stability and improved gap and flush management.



#### VALUE PROPOSITION

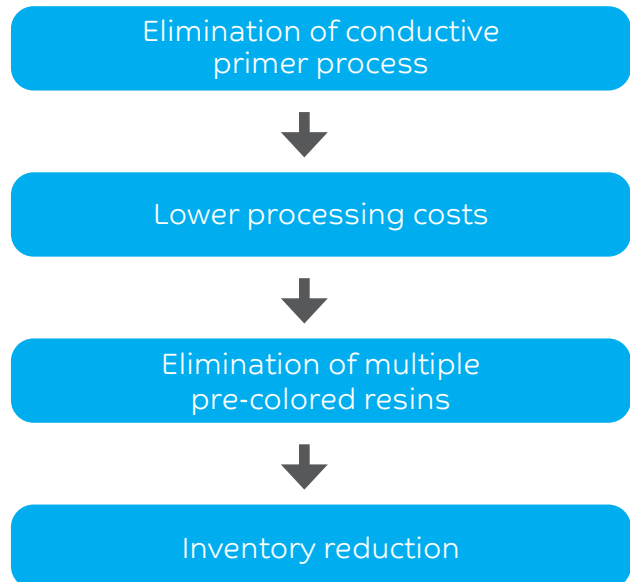
- Up to 20-40% lower CTE
  - Increased dimensional stability
  - Improved gap and flush management
- Conductive for primerless painting
  - Electrostatic painting
  - Powder coat systems
  - Solvent-based systems

#### BENEFITS FOR BODY PANELS

- Large, top-quality, high-precision
- Consistent long-term dimensional stability
- Higher-heat online painting systems
- Outstanding aesthetics + performance
- Enhanced conductivity at higher temps while maintaining excellent mechanical properties

#### WEIGHT OUT BENEFITS VS STEEL BODY PANELS

- Potential for reduced fuel consumption and emissions
- Potential weight reduction up to 3.2kg
- Up to 40% less energy consumption
- Up to 42% less carbon dioxide (CO<sub>2</sub>) emissions per part over lifecycle



## CONDUCTIVE NORYL GTX™ RESIN GRADES FOR AUTOMOTIVE EXTERIORS

Developed for primerless in-or-on-line painted fenders and exterior body panels, these unique thermoplastic materials may also be utilized for smaller parts such as tank flaps, grilles, and mirror housings.

CONDUCTIVE POWDER COAT PAINTING	MIRROR HOUSINGS + BRACKETS	CLASS A SURFACE + HIGH HEAT RESISTANCE OPTIMIZED POWDER COAT AROUND HOLES + CORNERS	GTX674PC	AVAILABLE ONLY IN BLACK HDT 188C RTI 65C
	IN / ON-LINE BODY PANEL FENDER TANK FLAP	ELECTROSTAT + POWDER COAT PAINTING HIGH HEAT	GTX973	FLEX MOD 2300 MPA HDT 195C RTI 50C
CONDUCTIVE - ELECTROSTATIC PAINTING	PANEL FENDER TANK FLAP	HIGH IMPACT + STRENGTH	GTX974	FLEX MOD 2050 MPA HDT 180C RTI 50C
	TANK FLAP AUTO TRIM CORNER PANELS	18% MINERAL HIGH STIFFNESS	GTX975	FLEX MOD 2300 MPA HDT 210C
LOW CTE CONDUCTIVE ELECTROSTATIC PAINTING	TRUNK LID TAILGATE EXTERIOR TRIM	LOW CTE 18% MINERAL CLASS A SURFACE HIGH STIFFNESS	GTX985	FLEX MOD 4200 MPA CTE 5 HDT 200C
	TANK FLAP BODY PANEL TAILGATE	LOW CTE LOWER MELT FLOW	GTX987	FLEX MOD 2700 MPA CTE 7 HDT 185C
	BODY PANEL, FENDERS, TANK FLAP, TRUNK LID, EXTERIOR TRIM	LOW CTE, HIGH HEAT DESIGNED FOR IN / ON LINE PAINTED BODY PANELS + FENDERS	GTX989	FLEX MOD 2450 MPA CTE 9 HDT 190C

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