

NORYL GTX™ RESIN SOLUTIONS FOR ELECTRIC VEHICLE WHEEL INSERTS

Lightweight, Heat Resistance and Design Freedom

Automotive designers look for new ways to stand out from the crowds with aesthetically appealing designs and outstanding technical performance. Wheel inserts help to reduce drag and hence improve the range of electric vehicles. Automotive designers can realize exciting, customizable new designs in a cost effective way.

NORYL GTX resin is an alloy of polyphenylene ether (PPE) and polyamide (PA), combining the inherent properties of PPE (long-term dimensional stability, very low moisture absorption, stiffness, strength, impact resistance) with the chemical resistance and flow of PA.

This advanced thermoplastic allows for new concept designs while providing superior mechanical properties and lightweight solutions that can withstand tough environments.

KEY PROPERTIES

- High heat resistance: to withstand heat build-up in brake or recuperation systems
- Paintability
- Impact resistance to enhance crash performance
- Very low specific gravity for reduced part weight and optimized moment of inertia



NORYL™ Resin Grade	Feature	E-Modulus (DIN527)	HDT (0,45 MPa)	Vicat A/50	MVR (ISO 1133)	Charpy (RT notched)
GTX902(E)	Standard	2200 Mpa	150°C	~215°C	12 cm³/10min	13 kJ/mm²
GTX910	High temperature	2200 MPa	175°C	238°C	10 cm³/10min	25 kJ/mm²
GTX914	High impact	2100 Mpa	180°C	245°C	12 cm³/10min	30 kJ/mm²
GTX973	Electrostatic painting	2300 Mpa	195°C	~250°C	12 cm³/10min	15 kJ/mm²
GTX964	Low temp impact	2000 MPa	175°C	240°C	7 cm³/10min	30 kJ/mm²



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