Advanced Materials

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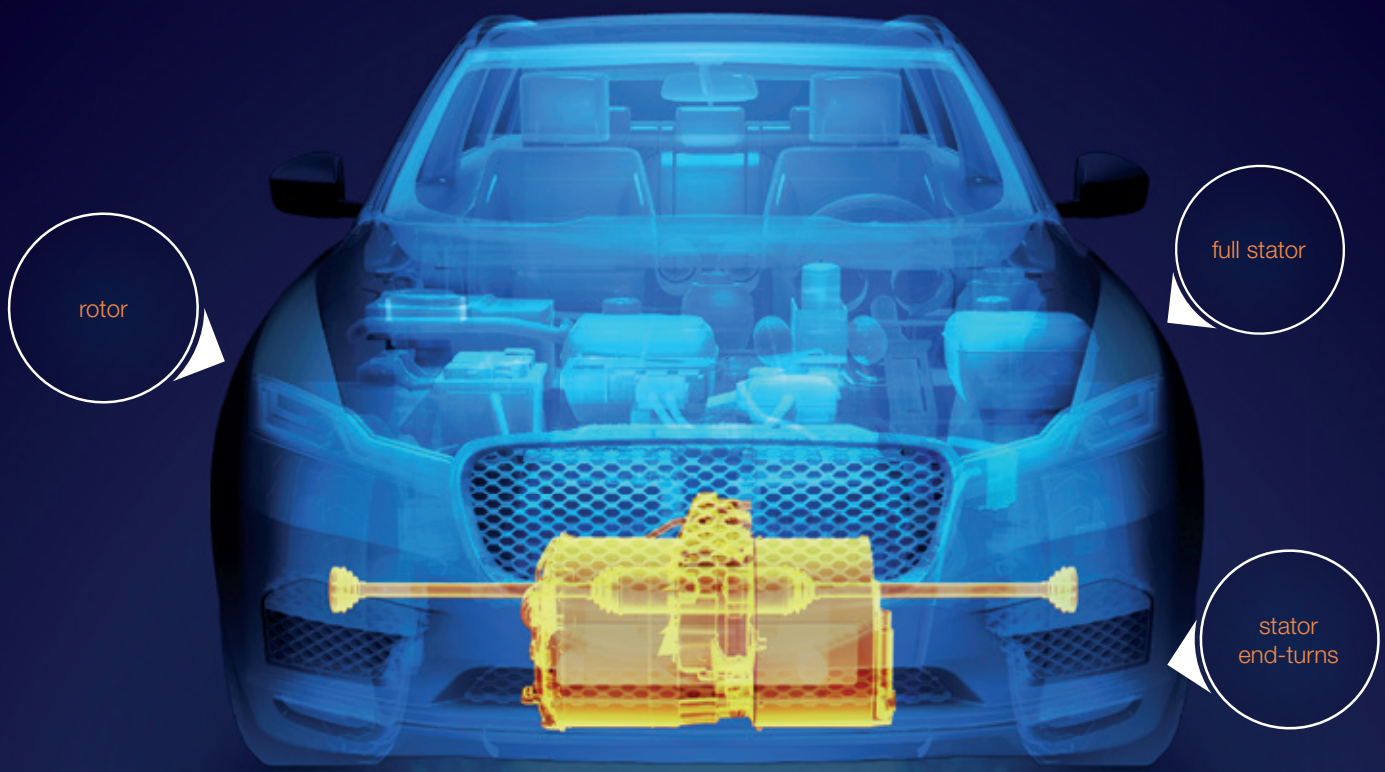
Araldite®

Encapsulants and impregnation resins for e-motor



Araldite® encapsulants and impregnation resins for e-motor improve heat dissipation and extend lifetime

Araldite® encapsulants and epoxy impregnation resins increase performance of rotor, full stator and stator end-turns

Key features

> High thermal conductivity
> Excellent thermal endurance
> Excellent impregnation and fast gap filling
> High crack resistance
> Excellent chemical resistance
> Tailored for fast processing

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Encapsulants and impregnation resins for e-motor

Encapsulant for stator end-turns **Araldite® CW 2731**	Encapsulant for rotors **Araldite® CW 30386 / Aradur® HW 30387**	Encapsulant for stators **Araldite® CW 30334 / Aradur® HW 30335**
Glass transition temperature (Tg) **165°C**	Glass transition temperature (Tg) **200°C**	Glass transition temperature (Tg) **100°C**
Thermal conductivity **3.0 W/(m·K)**	Thermal conductivity **0.7 W/(m·K)**	Thermal conductivity **1.2 W/(m·K)**
1-c epoxy system for end-turn encapsulation. Very high thermal conductivity and endurance. Excellent resistance to atmospheric and chemical degradation.	High Tg and lowest thermal expansion within the complete operation range. Very high thermal and chemical endurance. Fast gel and cure times.	Well balanced properties: good heat conductivity, very good crack resistance, media and thermal resistance. Excellent flow properties allow for fast filling times and good impregnation.

Encapsulant for stators **Araldite® CW 30407 /Aradur® HW 30408**	Encapsulant for stators **Araldite® CW 30407 /Aradur® HY 30409**	Encapsulant for stators **Araldite® CW 30326 / Aradur® HW 30327**
Glass transition temperature (Tg) **70°C**	Glass transition temperature (Tg) **70°C**	Glass transition temperature (Tg) **115°C**
Thermal conductivity **1.1 W/(m·K)**	Thermal conductivity **0.8 W/(m·K)**	Thermal conductivity **0.7 W/(m·K)**
Good flow properties and fast curing times (<1h at 120°C). Very good crack resistance and high heat conductivity of 1.1 W/(m·K). Anhydride-free.	Excellent flow properties and fast curing times (<1h at 120°C). Very good crack resistance and low density. Anhydride-free.	Good gap filling capability and heat conductivity. Toughened resin with reinforcing fillers for superior crack and thermoshock resistance. Very high thermal and chemical endurance.

2-c system for trickle impregnation **Araldite® CY 38340 / Aradur® 38341**	1-c system for trickle impregnation **Araldite® 38500**	1-c system for dipping impregnation **Araldite® 38600**
Glass transition temperature (Tg) **140°C**	Glass transition temperature (Tg) **160°C**	Glass transition temperature (Tg) **90°C**
Thermal conductivity **0.2 W/(m·K)**	Thermal conductivity **0.2 W/(m·K)**	Thermal conductivity **0.2 W/(m·K)**
2-c epoxy system for trickle impregnation and shelf life of many years. Fast cure times at low temperatures. High toughness and good adhesion.	1-c epoxy system for trickle impregnation. Fast cure times and high Tg. Improved wetting and adhesion to primary insulation.	1-c epoxy system for dipping impregnation. Low bath viscosity and high bath stability. Flexible system with improved crack resistance.

Learn more on www.huntsman-emobility.com
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