Advanced Materials

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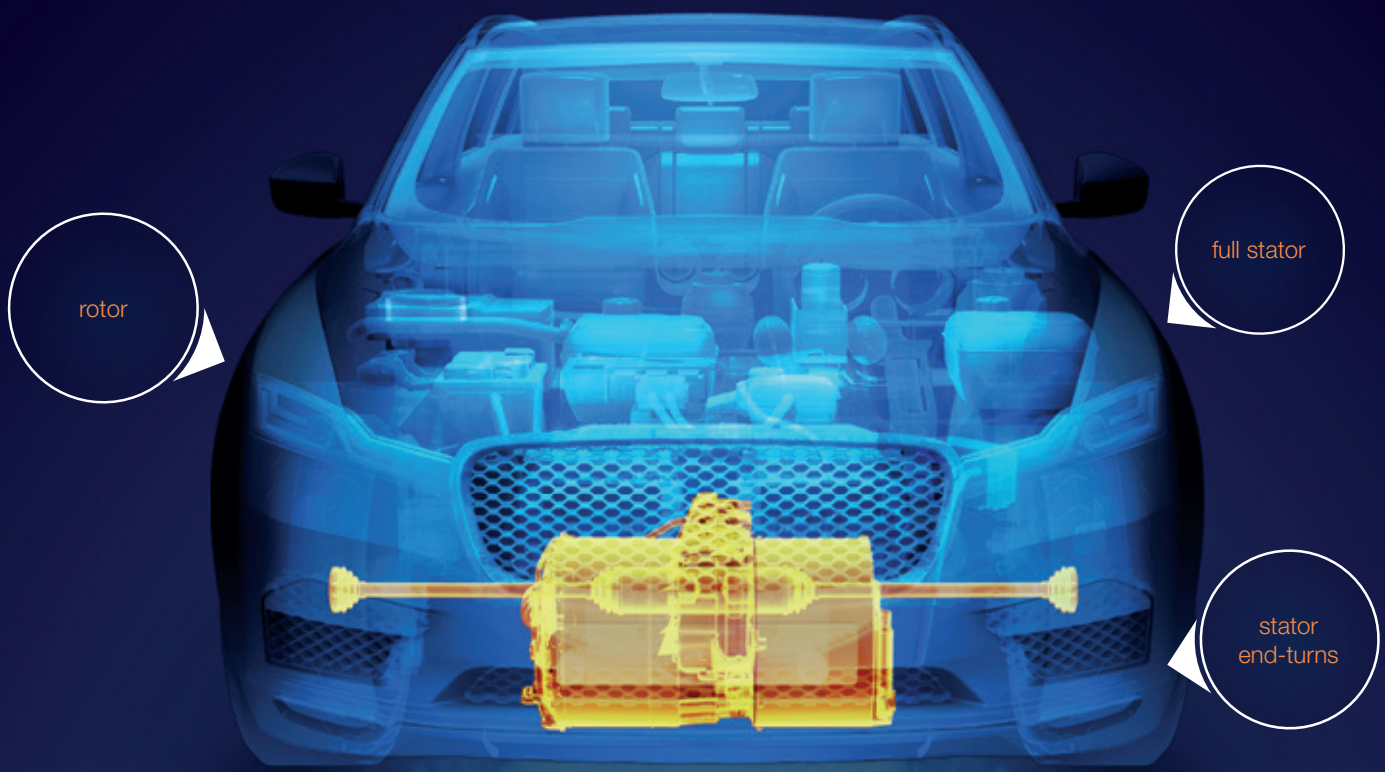
Araldite®

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

Araldite®

Encapsulants and impregnation resins for e-motor

Encapsulant for stator end-turns **Araldite® CW 2731**
Glass transition temperature (Tg) **165°C**
Thermal conductivity **3.0 W/(m·K)**
Very high thermal conductivity and endurance. Excellent resistance to atmospheric and chemical degradation. Monocomponent, storage stable at room temperature.

Encapsulant for rotors **Araldite® CW 30386 / Aradur® HW 30387**
Glass transition temperature (Tg) **195°C**
Thermal conductivity **0.7 W/(m·K)**
High Tg and lowest thermal expansion within the complete operation range. Very high thermal and chemical endurance (Class H). Fast curing

Encapsulant for rotors and stators **Araldite® CW 5742 / Aradur® HY 5726**
Glass transition temperature (Tg) **210°C**
Thermal conductivity **0.65 W/(m·K)**
Superior flow and gap filling capabilities enabling fast processing times. High Tg enabling low thermal expansion within the complete operation range. Very high thermal and chemical endurance (Class N).

Encapsulant for stators **Araldite® CW 30334 / Aradur® HW 30335**
Glass transition temperature (Tg) **100°C**
Thermal conductivity **1.2 W/(m·K)**
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**
Glass transition temperature (Tg) **75°C**
Thermal conductivity **1.1 W/(m·K)**
Excellent crack resistance (K1C 4.0). Fastest processing / curing.

Encapsulant for stators **Araldite® CW 30325 / Aradur® HW 30328**
Glass transition temperature (Tg) **-20°C**
Thermal conductivity **1.1 W/(m·K)**
Good gap filling capability and improved heat-conductivity. Highly flexible material with reinforcing fillers for superior crack and thermoshock resistance.

Encapsulant for stators **Araldite® CW 30326 / Aradur® HW 30327**
Glass transition temperature (Tg) **115°C**
Thermal conductivity **0.7 W/(m·K)**
Good gap filling capability and heat conductivity. Toughened resin with reinforcing fillers for superior crack and thermoshock resistance. Very high thermal and chemical endurance (Class H).

1k system for impregnation **Araldite® 38400**
Glass transition temperature (Tg) **120°C**
Thermal conductivity **0.2 W/(m·K)**
Monocomponent impregnation system. Class H (IEC 60085, UL 1446). Long shelf life and bath stability.

2k system for trickle impregnation **Araldite® CY 38340 / Aradur® 38341**
Glass transition temperature (Tg) **145°C**
Thermal conductivity **0.2 W/(m·K)**
Bicomponent system for trickle impregnation. 0.15 – 0.25 %wt. water absorption (30min/100°C). Total cure time 30min 150°C.

Learn more on www.huntsman-emobility.com

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