DuPont Automotive

Nomex® 710

DuPont™ Nomex® 710 electrical insulation papers are high-temperature capable, mechanically robust, chemically resistant materials specifically engineered for demanding requirements of emerging high-power automotive applications, such as for slot liner insulation of traction motors in hybrid and electric vehicles (EVs).

Benefits

- High thermal performance : UL component rating 220C
- Good chemical compatibility with all known automatic transmission fluids
- Thin thickness offering (8.5 mils) with high mechanical property
- High fill factor with copper in a motor slot
- High reliability in automatic manufacturing process
- Global supply chain & technical service in place
- Proven product for automotive application

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Typical thickness, mm	0.22 (8.5 mils)
Basis weight, g/m²	220
Tensile strength, N/cm	MD : 280 XD : 140
Elongation, %	MD : 20 XD : 15
Breakdown voltage, kV/mm	34
Partial discharge inception voltage, Vpeak	1400
Dielectric constant at	50~60Hz : 2.8 1000Hz : 2.7
Thermal conductivity, W/m·K	0.165
Thermal index	220