

EV Therm 400 Series

Engineered for Structural Thermal Bonding.
Optimized for Production Flexibility.

The EV Therm 400 Series combines structural bonding, thermal management, safety, and manufacturing flexibility in a new generation of engineered acrylic adhesives. Designed to meet the evolving demands of battery manufacturing. With options tailored for either maximum throughput or extended assembly time, the EV Therm 400 Series helps manufacturers optimize both product performance and production efficiency.

IDEAL APPLICATIONS

- Cell-to-cold plate, cell-to-module, and cell-to-pack/chassis bonding
- Prismatic cell-to-prismatic cell assembly
- High-volume automated manufacturing environments
 - Optimized handling strength required
- Designs requiring both thermal conductivity and structural reinforcement

PROCESS ADVANTAGES

- Effective thermal management for EV battery systems
- Reliable long-term thermal performance
- Consistent dispensing and processing characteristics
- Compatible with automated manufacturing processes
- Durable performance in demanding operating conditions
- Scalable from prototype development to full-volume production
- Available with or without glass beads for bond line control

EV THERM 420 VS EV THERM 441

FEATURE	EV THERM 420	EV THERM 441
Manufacturing Focus	Maximum Throughput	Maximum Process Flexibility
Open time	6 to 9 Minutes	18 to 23 Minutes
Ideal Production Environment	High-Speed Automated Lines	Complex or Extended Assembly Operations
Part Placement Flexibility	Good	Excellent
Thermal Performance	1.0 W/mK	1.0 W/mK
Color	Off-white	Blue
Odor	Low Odor	Low Odor
Flammability	UL 94V-0 Performance	UL 94V-0 Performance

EV THERM 400 SERIES VS. TRADITIONAL STRUCTURAL TIMS

- Up to 50% longer shelf life with 9 months storage stability versus the typical 6 months.
 - Reduce inventory waste and expired material costs
 - Improve supply chain and production planning flexibility
 - Enhanced resistance to liquid and filler separation during storage
- Tailored processing windows to match your manufacturing requirements
 - EV Therm 420 delivers maximum throughput for high-speed production environments
 - EV Therm 441 provides extended open time for larger assemblies and more complex manufacturing operations

For more information about our company, visit www.hbfuller.com.

KEY BENEFITS



High-impact resistance



Designed to meet the requirements of UL 94 V-0



No surface preparation required



Non-flammable and low odor for safer handling and easier processing



Flexibility-focused formulations

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