Pyrophobic®

lithium prevent

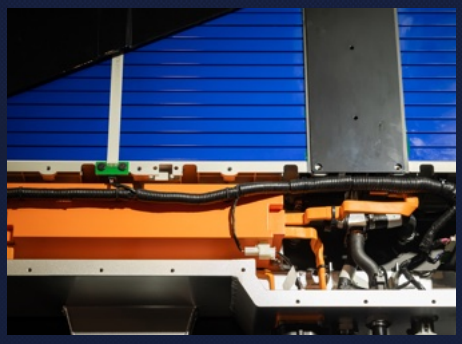
Engineered for Performance, Built for Safety:
The Proven, Plastic Solutions for Lithium-Ion Battery Thermal Runaway Containment and Prevention



- Absorbs Heat
- Forms a Char
- Blocks Fire



- Stops Arcing
- Prevents Smoke Induced Current Paths



- Cell Containment
- Busbar Isolation
- Pack Lid Defense

52ND-ANNUAL
spe AUTOMOTIVE INNOVATION AWARDS COMPETITION & GALA
HONORING THE BEST IN AUTOMOTIVE PLASTICS
2023 AWARD WINNER

Product Data Sheet - LithiumPrevent 200 (Semi-Rigid)

Availability	Americas, Europe, Asia-Pacific
Features	Intumescent, Fire Resistant, Electrically Non-Conductive
Colour Availability*	Natural, White, Orange, Black
Forms	Pellets, Powder
Processing Method	Injection Molding, Extruding, Over Molding, Thermoforming

Physical Properties	Value	Unit	Test Standart
Density	1.54	g/cm^3	ASTM D792-20
Start Expansion Temperature	200	^0C	INTERNAL

Mechanical Properties	Value	Unit	Test Standart
Tensile Stress	13.9	MPa	ASTM D638-10
Flexural Modulus	176	MPa	ASTM D790-10
Flexural Yield Stress	24.9	MPa	ASTM D790-10

Thermal Properties	Value	Unit	Test Standart
Thermal Conductivity	0.259	W/(m*K)	ASTM E2585-09

Electrical Properties	Value	Unit	Test Standart
Comparative Tracking Index	CTI 398	-	ASTM D3638-21

Flammability Properties	Value	Unit	Test Standart
Vertical Burn – 2mm	V-0	-	UL 94 – Section 8

Fire Test Standard

LithiumPrevent has successfully completed testing programs including internal testing, independent testing, and evaluations at NASA, the FAA and DNV.

UL 9540A (Fire Resistance)
ASTM E119 (Fire Resistance)
UL 94 (Flame Spread)
ASRM E 1354 (Caloric Content)

Testing Facilities

Our materials and products are tested at industry leading testing facilities to assure the highest standards including:

ESRG ENERGY SAFETY RESPONSE GROUP
Intertek
Intertek
FTL
UL Underwriters Laboratories