

Pyrophobic®

lithium prevent

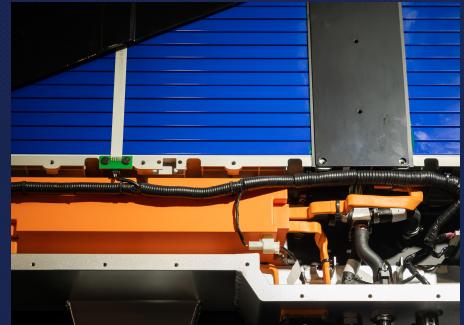
**Engineered for Performance, Built for Safety:
The Proven, Plastic Solutions for Lithium-Ion Battery
Thermal Runaway Containment and Prevention**



- Absorbs Heat
- Forms a Char
- Blocks Fire



- Stops Arcing
- Prevents Smoke
- Induced Current Paths



- Cell Containment
- Busbar Isolation
- Pack Lid Defense



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	°C	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:



Underwriters
Laboratories



Product Data Sheet - LithiumPrevent 200R (Rigid)

Physical Properties	Value	Unit	Test Standart
Density	1.43	g/cm ³	ASTM D792-20
Start Expansion Temperature	200	°C	INTERNAL
Molding Shrinkage	0.004	in/in	INTERNAL
Mechanical Properties	Value	Unit	Test Standart
Tensile Modulus	3330	MPa	ASTM D638-22
Tensile Strength	36.4	MPa	ASTM D638-22
Elongation at Break	6.3	%	ASTM D638-22
Izod Notched Impact Strength	50	J/m,C	ASTM D256-23 Method A
Thermal Properties	Value	Unit	Test Standart
Heat Deflection Temperature	66.8	°C	ASTM D648-18
Coefficient of Linear Thermal Expansion	6.13E-05	/°C	ASTM D696-16
Electrical Properties	Value	Unit	Test Standart
High-Current Arc Ignition	PLC-0	-	UL 746A Sect 33
Comparative Tracking Index	≥ CTI 600	-	ASTM D3638-21
Flammability Properties	Value	Unit	Test Standart
Vertical Burn - 1 mm	V-0	-	UL 94 Section 8
Hot Wire Ignition	PLC-0	-	ASTM D3874-20

LithiumPrevent provides fire safety solutions for problems associated with lithium-ion batteries:

- Contains thermal runaway at the cell or module level
- Provides thermal separation between cells or modules
- Controls explosive events
- Prevents cascading fire propagation
- Prevents transfer of internal heat to outside combustibles



Get in Touch

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