



# lithium prevent

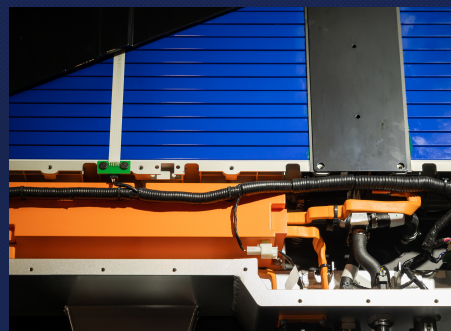
**Engineered for Performance, Built for Safety:**  
**The Proven, Plastic Solutions for Lithium-Ion Battery**  
**Thermal Runaway Containment and Prevention**



- 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)

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

Physical Properties	Value	Unit	Test Standart
Density	1.54	g/cm <sup>3</sup>	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:



**ESRG**  
ENERGY SAFETY  
RESPONSE GROUP



**Underwriters  
Laboratories**





## Product Data Sheet - LithiumPrevent 200R (Rigid)

Physical Properties	Value	Unit	Test Standart
Density	1.43	g/cm <sup>3</sup>	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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