Pyrophobic®

lithium prevent

Introducing LithiumPrevent™ 200REX

The NEW Extrudable Fire Safety Solution for Lithium-Ion Batteries!

Pyrophobic Systems is proud to launch LithiumPrevent 200REX, the latest addition to our trusted LithiumPrevent™ family.

- **Design Flexibility:** Create continuous shapes and custom profiles to fit unique battery architectures.
- **Scalability for OEMs:** Efficient large-scale production with reduced tooling costs.
- **Seamless Integration:** Easily incorporate extruded fire protection barriers into module housings, spacers, or enclosures.
- **Lightweight & Consistent:** Uniform extruded components deliver reliable material performance across the entire assembly.
- **Fewer Parts & Reduced Complexity:** Multiple features and functions can be integrated into a single continuous profile, minimizing part count and simplifying assembly. This reduces manufacturing complexity and assembly time while lowering costs and the risk of errors.

Absorbs Heat
Forms a Char
Blocks Fire

Stops Arcing
Prevents Smoke
Induced Current Paths

Cell Containment
Busbar Isolation
Pack Lid Defense

Scan to Learn More About LithiumPrevent

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Product Data Sheet - LithiumPrevent 200REX (Extrusion)

LithiumPrevent 200REX is an intumescent thermoplastic composite that is fire resistant and electrically insulative.

Availability	Americas, Europe, Asia-Pacific
Features	Intumescent, Fire Resistant, Electrically Non-Conductive
Colour Availability*	All Colours Available Upon Request
Forms	Pellets, Powder
Processing Method	Extrusion

Physical Properties	Value	Unit	Test Standard
Density	1.19	g/cm^3	ASTM D792-20
Start Expansion Temperature	200	°C	INTERNAL

Mechanical Properties	Value	Unit	Test Standard
Tensile Modulus	2150	MPa	ASTM D638-22
Tensile Strength	24	MPa	ASTM D638-22
Elongation at Break	3.3	%	ASTM D638-22
Izod Notched Impact Strength	53	J/m,C	ASTM D256-23 Method A

Thermal Properties	Value	Unit	Test Standard
Heat Deflection Temperature	63.8	°C	ASTM D648-18
Coefficient of Linear Thermal Expansion	6.541E-05	/°C	ASTM D648-18

Electrical Properties	Value	Unit	Test Standard
High-Current Arc Ignition	PLC-0	-	UL 746A Sect 33
Comparative Tracking Index	CTI 561	-	ASTM D3638-21

Flammability Properties	Value	Unit	Test Standard
Vertical Burn - 2mm	V-0	-	UL 94 Section 8
Hot Wire Ignition	PLC-0	-	ASTM D3874-20

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