

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

General	
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 Standard
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 Standard
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 Standard
Heat Deflection Temperature	66.8	°C	ASTM D648-18
Coefficient of Linear Thermal Expansion	6.13E-05	/°C	ASTM D696-16

*most colorants most colorants can be added without affecting performance at the correct ratio. Speak with sales about colour availability



Electrical Properties	Value	Unit	Test Standard
High-Current Arc Ignition	PLC-0	-	UL 746A Sect 33
Comparative Tracking Index	≥ CTI 600	-	ASTM D3638-21

Flammability Properties	Value	Unit	Test Standard
Vertical Burn - 1 mm	V-0	-	UL 94 Section 8
Hot Wire Ignition	PLC-0	-	ASTM D3874-20