

Flame Retardant Box Liner Fact Sheet

1. Call2Recycle Canada is launching a flame retardant box to further the safety of the collection and shipment of used batteries. As of January 2018, all Canadian Call2Recycle boxes will ship with this liner.
2. Distributing a flame retardant box is another way Call2Recycle is demonstrating its commitment to safety. The box liner offers an additional layer of protection in the prevention of a thermal event during the battery journey – from collection to transportation, to sorting and processing.
3. The patent-pending flame retardant liner underwent extensive testing by an independent lab. Using new, fully-charged Lithium Ion and Lithium primary batteries, a thermal runaway event was simulated. The liner withstood heat up to 600 degrees Celsius (1,100 degrees Fahrenheit) and prevented flames or heat from spreading outside of the shipping container.
4. When used in conjunction with Call2Recycle program guidelines and Transport Canada terminal protection requirements, the liner can provide an added layer of protection to prevent flames escaping from the battery box in the unlikely event of a thermal runaway and ignition of packaged material.
5. As North America’s leading, and most reliable, battery collection and recycling program, Call2Recycle will be the first battery stewardship program to utilize this innovation for battery collection. Call2Recycle Canada began distributing the flame retardant-lined boxes to collection sites in Canada in January 2018, following the U.S. who launched in October 2017.
6. Call2Recycle’s flame retardant liners are a dense polyester material manufactured from recycled materials such as used plastic bottles and are, themselves, recyclable. The flame retardant liners will be removed at sorter and processor locations and reused in the distribution of new boxes. This cycle will continue until the quality has diminished over time. Once the liners are no longer suitable for use they will be recycled.



As the leading consumer battery stewardship program in Canada, Call2Recycle continues to ensure the safe and responsible management of batteries that are no longer in use, working to keep them out of landfills and minimize environmental impact.