



TempGuard™ Technical Data Sheet

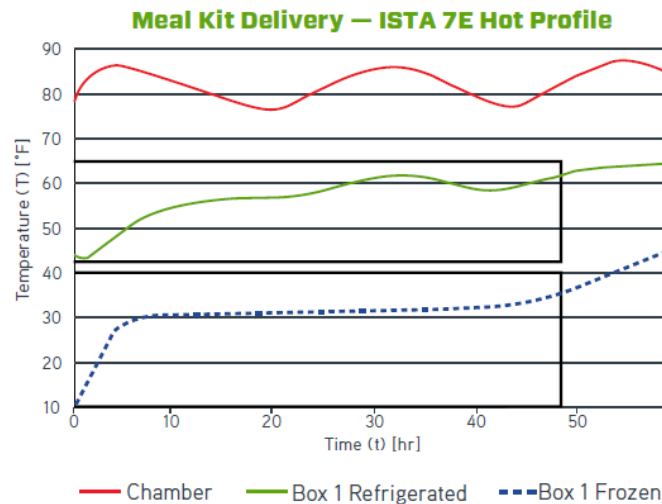
Sealed Air's TempGuard™ Insulation solution, is a curbside recyclable material developed for shipping temperature-sensitive goods. The product's thermal insulation is constructed from heavy-duty kraft paper containing a uniform inner padding, which provides superior insulating properties. Thermal conductivity and Thermal Resistance properties data for uncompressed pads are listed in Table 1.

Table 1: Thermal Properties Data

Property	Test*	Value
Thermal Conductivity, k-value (W/m-K)	ASTM C518	0.03883 - 0.0371
Thermal Resistance, R-value/inch (Hr-Ft ² - °F/ BTU-IN)	ASTM C518	3.7 – 3.9

*Measured with LaserComp calibrated in accordance with ASTM C518

TempGuard™ is a highly customizable box liner that can be optimized through thermal modeling to meet the needs of one- and two-day shipping. Following chart shows a typical meal-kit ISTA 7E hot profile data from chamber test.



TempGuard™ may be used as a thermal insulation material which is not for direct contact with food, pharmaceuticals or medical devices. Such items must also have primary packaging with an appropriate functional barrier material. TempGuard™ may be customized to meet a variety of different temperature profiles when combined with refrigerants to achieve customers' thermal shipping needs. Sealed Air recommends that each customer determine the suitability of TempGuard™ for the intended application utilizing an ISTA 20 certified lab and internal protocols. Because use conditions and applicable laws may differ from one location to another and may change with time, each customer is responsible for determining whether products are appropriate for their use and for ensuring that the product and disposal practices are in compliance with applicable laws and governmental enactments.