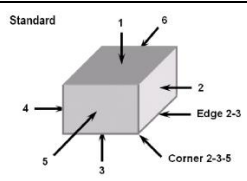
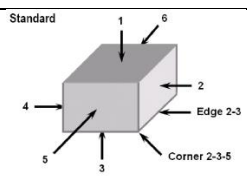
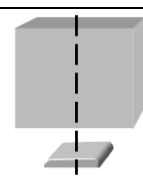


Table 1: ISTA 3A – STANDARD (2018) Packaged-Product-Test, required tests

Test Type	Test parameters	Test load/ Test duration
Atmospheric Preconditioning	Storage under ambient laboratory conditions	24 h
“Drop” First sequence	Drop # Orientation 1 Edge 3-4 2 Edge 3-6 3 Edge 4-6 4 Corner 3-4-6 5 Corner 2-3-5 6 Edge 2-3 7 Edge 1-2 3: Designated base face	 1 drop per impact orientation Drop height: 460 mm
	Drop # Orientation 8 Face 3	Drop height: 910 mm
	Drop # Orientation 9 Face 3	Drop height: 460 mm
“Random Vibration with Top Load”	“Over-the-Road Random Vibration Spectrum”, frequency range: 1 - 200 Hz, effective acceleration: approx. 0.53 g, packaged-product not secured to vibration table in vertical axis.	Face 3 on vibration table: 60 min; Face 4 on vibration table: 30 min; Face 6 on vibration table: 30 min;
“Random Vibration without Top Load”	“Pick-up and Delivery Vehicle Spectrum”, frequency range: 1 - 200 Hz, effective acceleration: approx. 0.46 g, packaged-product not secured to vibration table in vertical axis.	Face 3: 30 min
“Drop”	Drop # Orientation 10 Edge 3-4 11 Edge 3-6 12 Edge 1-5 13 Corner 3-4-6 14 Corner 1-2-6 15 Corner 1-4-5 3: Designated base face	 1 drop per impact orientation Drop height: 460 mm
	Drop # Orientation 16 Most critical or damage-prone flat orientation	Drop height: 910 mm
	Drop # Orientation 17 Face 3 on hazard	 Drop height: 460 mm