

Testing Summary

050-1300 Plastic Slam Action Latch

Dust/Dirt Cycle Test:

All examples achieved 20K cycles during testing in a dust chamber using 10lb. DSL (Door Seal Load) with minimal wear seen on any of the components. One (1) of the examples were taken to 100K cycles, also with minimal wear seen on any of the components.

Cold Impact (-40° F/-40° C) Test:

Examples were tested to determine the ultimate impact strength in a cold environment (-40° F/-40° C). The mean impact energy achieved by the assemblies was 91 in-lbs [10.28 Nm].

Torque Test (Mounting fastener):

Examples were tested for torque using an M6 fastener. Per the manufacturers recommendations proper seating torque of a thread forming PT fastener can be determined by multiplying the average failing torque by 65%. Therefore, all pertinent information will be documented as: Maximum mounting torque of fastener to be 92.3 in-lbs [10.43 Nm]

Static Load Test – (Ambient Temp.):

Examples were tested to determine the ultimate strength of the latch at room temperature (70° F/ 21.1° C). The mean static load achieved by the latch was 803 lbf [3572 N].

Static Load Test – (-40°F/-40°C):

Examples were tested to determine the ultimate strength of the latch at cold temperature (-40° F/-40° C). The mean static load achieved by the latch at cold temperature was 733 lbf [3261 N].

Note: Additional testing information is available upon request.



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