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Declaration of Self– Life of Cable Ties

- Self – life of cable ties is a function of the environment in which they are stored. Perfect storage conditions for a cable tie are 23°C (73°F), and 50% RH (RH means, Relative Humidity in atmosphere, say for example all the coastal areas will have more humidity as compared to the cities situated near mountains and do get sea coast, so the cable ties stored in such places situated on coastal area will remain flexible even if the moisture is lost from LDPE bags).
- Cable ties will remain supple when packed in manufacturer's original sealed bags (means can bend & move easily – flexible) as a result of the stable temperature and RH in this environment. Life expectancy under these conditions is well in excess of two years.
- Self- life will be effected by extreme temperature, humidity and tampering the sealed bag.
- Aging has no effect on cable ties, except for aesthetic. Natural nylon ties tends to yellow color with age, but the effectiveness of these ties is unaffected by the change in coloration. (If this is a concern, end user can use a colored cable tie.)
- Industry standard-IEC 62275:2016 recommends warranty of cable tie for Eighteen months. Surelock warrants its product for 18 Months from date of production / packaging.
- Most brittleness problems with cable ties are caused by temperature extremes with very low humidity. When cable ties exit the mold, they are in a dry and brittle state. In order to give ties flexibility and suppleness, moisture conditioning is done.
- Just as Nylon 66 absorbs moisture, under cold and dry conditions the moisture seeks to migrate from the cable ties / strap as the LDPE bags are permeable. Sealed plastic bags are used to retard this process, but the bags are not a vapor barrier, so it cannot hold moisture content for a long time (even in sealed condition). Eventually, under these conditions, the tie will return to its "as molded" (i.e. brittle) state. This is true for all Nylon 66 ties produced by the various cable tie manufacturers all over the world. Virtually all brittleness problems occur in outdoor applications in very cold weather, or where cable ties have been stored for long period in an unheated warehouse. The tie breaks as it is being flexed. Once ties are placed around a wire or cable, they are virtually immune to brittleness.

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Suggestions for an engineering standard would be:

- **Cable ties should be stored in the manufacturer's original packaging until ready for use.**
- **Cable ties should not be stored in an unheated warehouse** (it means in cold countries / places which are situated on mountains, which are cold & dry and the RH is very less, needs above temperature & RH in stored, to retain quality of cable ties)
- **Cable ties inventory should be rotated frequently** (means consumption of stock on FIFO ie. First In – First Out basis, by rotating / moving / goods for further consumption, and by this way goods can be consumed well within 6 months from the date of manufacturing.)
 - Cable ties should be used within one year of purchase.
 - Cable ties should be used immediately after opening bag seal and bag shall be resealed within maximum two days for unused cable ties and shall be kept within enclosure (Not direct sun light).
 - Cable ties should not be over tensioned when installed, this may weaken the tie (Should not exceed the designed tensile strength)
 - Manufacturer original sealed polybag should not be interchanged.

Always buy Surelock products for Quality & Reliability.

For any further query please call at +91-8080860530 or E-mail: customercare@surelock.in

For Surelock Plastics Private Limited



Quality Manager

Date :

