CABLE TIES | Safe Storage and Characteristics

Moisture

Many plastics when exposed to high relative humidity absorb water and, as such, the tensile strength of the material can change dramatically. Nylon 6.6 when exposed to 100% relative humidity, will absorb as much as 8.5% water which will reduce tensile strength by 50% when compared to a dry cable tie.

Proper Storage

Nylon 6.6 is a hygroscopic material (affected by atmospheric moisture variations). The optimum storage requirement for Nylon 6.6 cable ties is 73°F (± 15°F) and 50% RH (relative humidity) in sealed containers. Improper storage, especially in cold/dry conditions can result in moisture loss, which impedes cable tie performance when ties become brittle.

The packaging provides Nylon 6.6 cable ties conditioned to 2.0% to 3.5% moisture added by weight in heavy-wall, polyethylene, heat-sealed bags.

Table of required moisture test parameters.

- 2.5mm width 2.0% to 2.5%
- 3.6mm width 2.0% to 2.8%
- 4.8mm width 2.0%.to 3.0%
- 7.6mm width 2.0% to 3.0%
- 9.0mm width 2.0% to 3.5%