

BULLETIN

ZOTEK N: Handling and Manufacturing Guidelines

Shipping:

1. ZOTEK N being of a base polyamide (nylon) polymer is hygroscopic in nature. It is good practice to control this characteristic and consider any effect through all handling and manufacturing processes. This document outlines key considerations.
2. ZOTEK N sheets are manufactured and prepared for despatch by Zotefoams PLC fully wrapped on a pallet in a typical pre-conditioned state.
3. Delivery and collection methods should ensure material is always in a covered vehicle and material is never subjected to outside elements, i.e. rain.
4. This is also true of customer's further subsequent fabricated shipments where care must be taken to ensure packaging and wrapping is adequate to avoid exposure to moisture or heat.

Storage:

1. ZOTEK N should be stored inside at ambient conditions; ideally twenty three degrees Centigrade and 50% relative humidity where possible and should never be subjected to hot or moist environments.
2. It is also important to note that ZOTEK N "in fabrication" is always stored and processed in normal ambient factory environments to maintain the "as despatched" state of the product.

Processing:

1. For high heat processes such as thermoforming it is recommended that as for other materials suitable extraction methods are used.
2. Exposure to moisture is to be avoided; for example it is not recommended to subject ZOTEK N to water jet cutting for instance. Equally lengthy exposure to high heat sources during fabrication is also not recommended, i.e. close proximity to heaters or under hot lamps.
3. Post processing small dimensional variances can occur and care should be taken to assess this in regard to the correct processing blank and final geometric sizes or thickness requirements of your particular application. Dimensional validation after one hour, twenty four hours or after one week for instance will assist you in determining any effects along with suitable testing in application confirming the suitability of ZOTEK N to meet full customer requirements.
4. It is important to ensure that correct thermoforming temperatures are utilised for the particular grade of ZOTEK N being produced. Please contact us for further advice if necessary or refer to our fabrication guidelines.

Product Design:

1. Final product application including tolerances required and usage environment should be discussed upon initial enquiry with either Zotefoams Technical or Sales representatives or Zotefoams distributor of product to ensure full customer satisfaction.

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