

FACTS:

Micro cracks, created by the different expansion rates of nylon and water, are forming in a particular product. The product is made from general-purpose nylon, UV stabilized, F.R., or H.S. nylon after absorbing the proper level of moisture, and following exposure to temperatures below freezing.

Micro cracks are stress points with a negative impact on the part. After secondary remoisturizing, the product performs better, but is more sensitive at lower moisture levels than a part, which had not been previously frozen.

If the nylon product is exposed to gradual temperature change, the moisture can escape from the part to the atmosphere, and there is no danger of micro cracks.

If the product is exposed to rapid temperature change (for example: Stock – Delivery truck) the moisture freezes before it can escape, and micro cracks appear.

Hoëchst Celanese
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