

UFlex Secures Patent for Advanced Reclosable Packaging for Large-Format Bags

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UFlex Limited, India's largest multinational flexible packaging and solutions company, has secured an Indian patent, valid for a period of 20 years from the date of filing, for its invention titled "A Reclosable Flexible Package with Enhanced Barrier Protection."

The patented packaging solution has been specifically designed for large-format packs that are opened and resealed multiple times before their contents are fully consumed. It is particularly suited for products such as pet food, coffee, protein supplements, flour, pharmaceutical ingredients, fertilizers, specialty chemicals, and other industrial products that require protection from moisture, oxygen, and contaminants during storage, transportation, and repeated use.

Unlike conventional reclosable flexible packs, the patented design integrates secure reclosure, a tamper-detection feature, and enhanced barrier protection into a single packaging solution. This enables products to remain securely

protected until the first use while continuing to safeguard the contents after the package has been opened and resealed multiple times.

A key feature of the patented packaging solution is a specially engineered protective thin layer positioned beneath the zipper assembly. Even if the zipper is opened, the contents cannot be accessed without tearing the thin layer, providing a clear visual indication of tampering. Once opened, the zipper enables the package to be securely reclosed, while the integrated barrier structure continues to protect the remaining contents from environmental factors such as moisture, gases and contaminants.