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CASINGS & PACKAGING MATERIALS / ViskoTeepak.com

NOVA PLASTIC CASINGS

Enhanced Flexibility for High-Expansion Products with Nova Flex Types

THE FINAL ARTICLE OF THE SERIES



“The bad news is time flies. The good news is you’re the pilot.”

– Michael Altshuler

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Enhanced Flexibility for High-Expansion Products with Nova Flex Types

Operational efficiency, yield, and throughput are the cornerstones of profitability in today's food industry. At ViskoTeepak, we know that casing choice plays a critical role in achieving these goals. That's why our Nova plastic casings are more than just a component — they are tailor-made, precision-engineered solutions designed to reduce your total cost of operations and deliver measurable value.

This article is the third and final in our series of case studies. Here we explore how Nova Flex casings provide the elasticity and durability needed for high-expansion products, reducing waste and ensuring process reliability.

The Challenge: Breakage During Thermal Processing

In many applications, from molds to high-expansion emulsions, standard or stiffer casings risk breakage during thermal processing. This can occur on the ends of logs or as longitudinal splits, leading to lost product, rework, and increased waste.

The ViskoTeepak Solution: Nova Flex Types

Our advanced Nova Flex types provide a wide range of flexibility while relying on the same proven base casing technology. This allows us to tailor solutions that eliminate breakage during the thermal processing of challenging products.

How We Achieve Enhanced Flexibility:

- **Material Science:** By combining specific food-grade plastic film resins with specialized manufacturing techniques, we create a casing structure that allows greater radial expansion while maintaining toughness and integrity.
- **Optimized Shrink Profile:** Shrink forces are carefully balanced to work in harmony with the product's expansion, preventing constriction and safeguarding yield.
- **Gauge Optimization:** A tailored thickness ensures that the casing is strong enough for handling but pliable enough to stretch, creating a safety margin against overstuffing and breakage during cooking.

This solution enables producers to achieve target product sizes and yields, even with demanding formulations. For example, while many recipes ran smoothly with one of our standard Nova casing types, certain high-expansion formulas experienced yield loss due to breakage during cooking. By developing an enhanced-flexibility version of this structure, we eliminated the problem without compromising performance elsewhere.

The result is reduced waste, improved reliability, and greater confidence in production outcomes.

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Contact your ViskoTeepak representative today to begin a conversation about tailoring a casing that brings unparalleled value to your operation.



Tailored Casings

