

INSA Güm[®]

with Vitamin E (Tocopherol)

Polymers for gum
base production



Introduction

The **INSAGUM®** family of products are hot emulsion styrene-butadiene copolymers specially designed and manufactured for chewing and bubble gum.

These elastomers provide elasticity and cohesiveness to all chewing gum components, additionally **INSAGUM®** promotes the gum volume and full body feeling during chewing as styrene-butadiene polymer swells during chewing and contact with saliva.

Two types of polymers are available based on the styrene level:

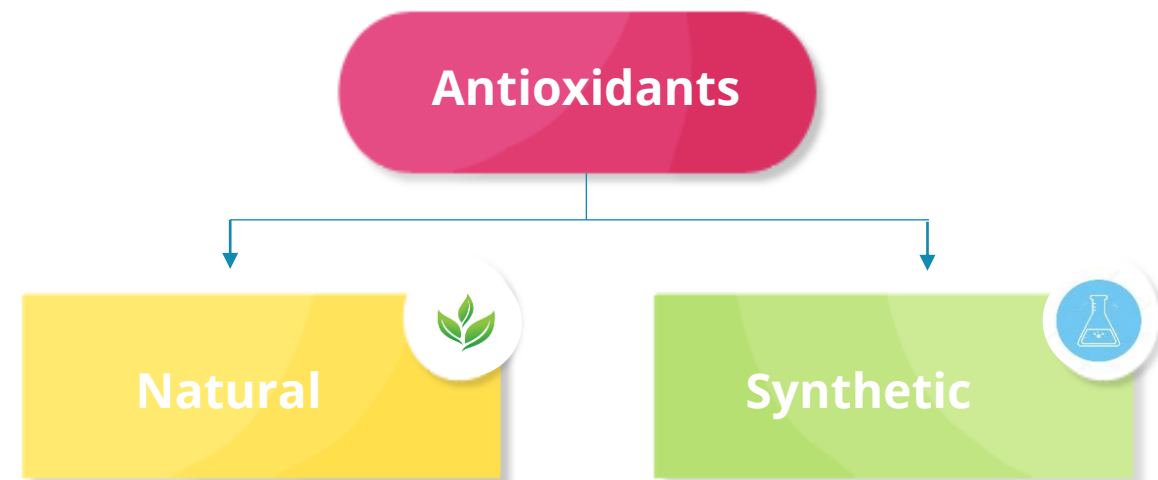
- **IG1027** with low styrene level is most suitable for gum with a soft or regular chew.
- **IG1028** with a high styrene level is most suitable for gum with a firmer chew, as well as for bubble gum where bubble size and stability are highly desirable.

Antioxidants and Preservatives are added in chewing gum formulations to extend the shelf life of the product.

Antioxidants for use in food processing must be , nontoxic, effective at low concentrations, capable of surviving processing, stable in finished products and avoid of undesirable color, flavor and odor effects.

In general, the selection of antioxidants depends on products, compatibility and regulatory guidelines.

Our technology team has been researching and developing a new category of **INSAGUM®** grades that are aligned with new trends by using ingredients from natural sources.





Nowadays people are interested in learning more about the ingredients of products that they consume such as chewing gum. The use of natural ingredients has become more important for all consumers, particularly millennials.

In line with market needs and finding new ways to create value for our customers, Dynasol introduces the new Food Grade SBR **INSAGUM 1028E**, which uses **Vitamin E** as a natural source antioxidant replacing synthetic BHT.

The new **INSAGUM 1028E** meets the same mechanical and aging resistance properties of our regular INSAGUM 1028.

INSA^{Gim}® Product Portfolio

IG1027

IG1028

- INSAGUM®
- BHT - Antioxidant
- (0.25-0.50)



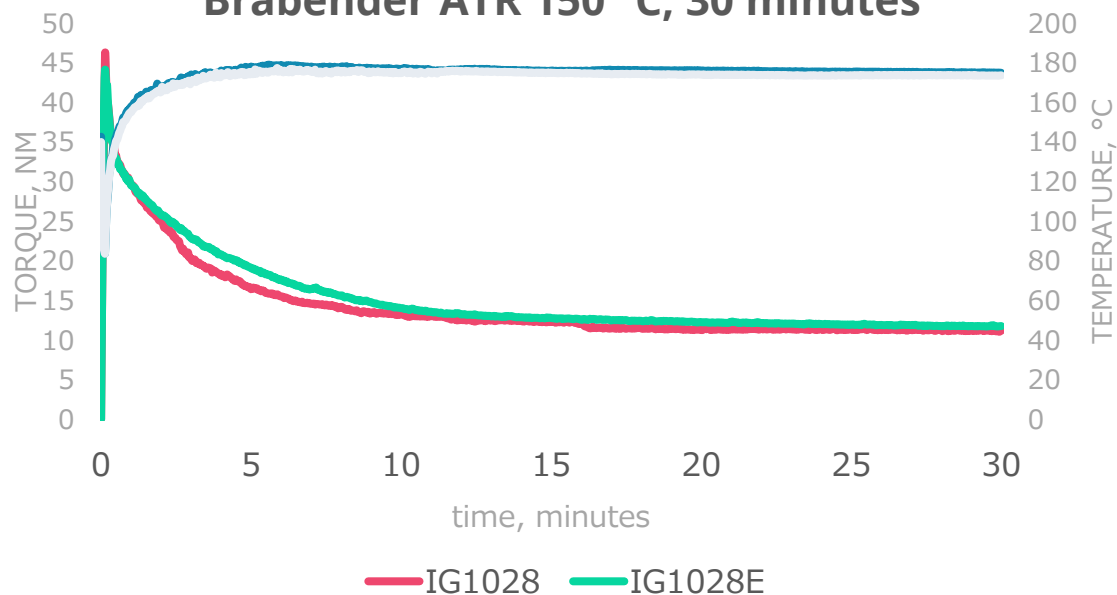
IG1028E

- INSAGUM®
- Vitamin E
- (0.25-0.50)



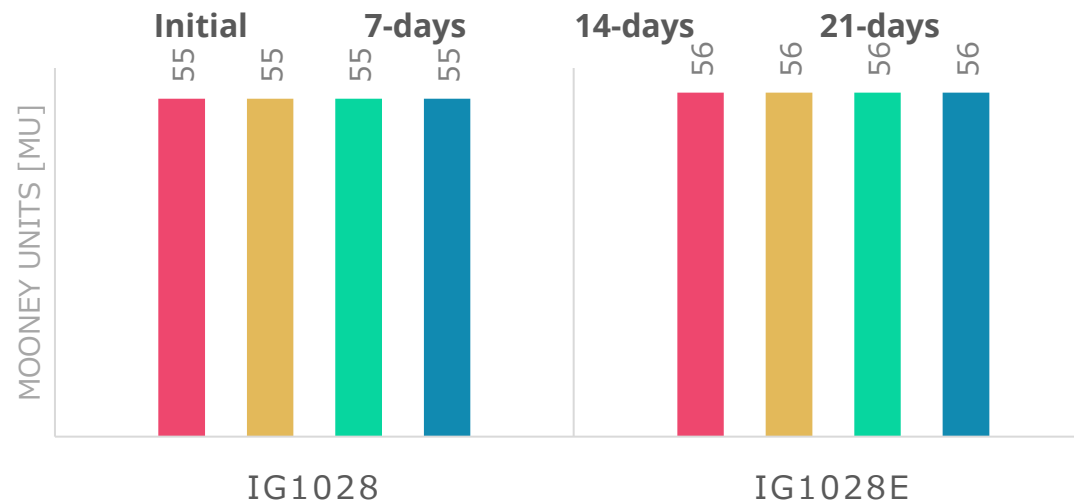
Product Performance

Thermo mechanical stability
Brabender ATR 150 °C, 30 minutes



Heat resistance and resistance to mechanical oxidative conditions. Samples exhibit the same torque response after 30 minutes and 150 °C.

Mooney Viscosity
Oven ageing

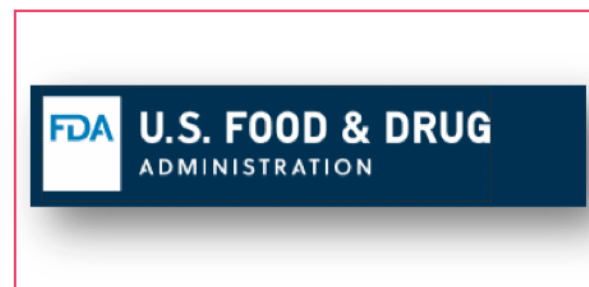
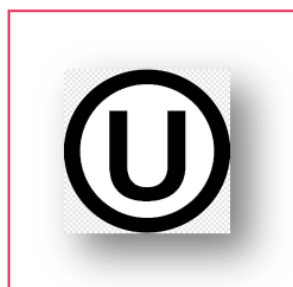


Accelerated ageing and heat resistance. Mooney viscosity measurements after deterioration in air oven at 70 °C.

Certifications

INSAGUM® products are certified by international organizations for food safety:

- ISO 22000
- Orthodox Union Kosher
- Halal
- FDA requirements
 - 21 CFR §172.615 CHEWING GUM
 - 21 CFR §177.2600 INDIRECT FOOD ADITIVES, POLYMERS



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