

## Technical Data Sheet

# Ester Gum

### Product Description:

Ester Gum is a pale yellow, hard thermoplastic resin. It is reaction product of food grade Glycerol with best quality Pinus Massoniana Gum Rosin WW. It is produced by a special process which yields low odor, low acid number product. The Softening point can be adjusted to suit viscosity needs of Gum Base producers, typically between 87 to 90, but could be produced up to 92°C Softening point on request

### Specifications:

Standard Value	KSEG8W	KSEG8C	Typical Value
Acidity (mgKOH/g)	3.0-8.0	3.0-8.0	<7
Color (Gardner)	N	N	
Softening point (ring&ball) °C	86-96	86 -96	86 -90
Ash %	<0.1	<0.1	< 0.1
Specific Gravity			1.080-1.083
Lead (ppm)		≤1	
As (ppm)		≤2	
Heavy metals (ppm)		≤10	
Taste		Free of any bitter notes	
Visual Test		Free of any foreign matters	

It has been cleared by US F&DA as a masticatory ingredient in Chewing Gum composition. The Ester gum supplied by Katosan is always freshly produced on demand and will remain within specification limits for 12 months after shipment. However, as we can neither anticipate the conditions under which the resin is processed nor the end use applications for which it is used, we recommend that the material be tested upon receipt.

### Compatibility and Solubility:

Compatible with natural rubber, SBR, CR, EVA copolymers, SIS and SBS block copolymers, low molecular weight polyethylene, paraffin and microcrystalline waxes.

Soluble in aromatic, aliphatic, and chlorinated hydrocarbons, esters, ketones and higher molecular weight alcohol, vegetable oils, orange oil and most of natural oils. Insoluble in methanol, ethanol, isopropanol and alcohol

### Usage:

- It is used as basic material of chewing gum, bubble gum
- Also used as emulsification stabilizer for drinks, and tackifier for adhesives for cigarette filter and in various adhesives where minimum odor is also a requirement.

### Packaging Storage and Transportation:

- Pack in drum with 200kg/drum, 240kg/drum, 250kg/drum and 25kg/drum
- Solid bulk Pack in 25kg/carton 19.5 ton per 20" CTR
- Granules pack in laminated Kraft paper bags with 25kg/bag 16 tons on pallet per 20" CTR

Because of the extremely large surface area, flaked forms of resins are prone to gradual oxidation. This could result in darkening and / or could have an adverse effect on solubility in organic solvents. It is strongly recommended that strict control of inventory be observed at all times, taking care that the oldest material is used first. Recommended storage is in original packaging, dry, free from contamination, and below 30°C.

Flaked forms may fuse, block or lump, during hot weather months, if stored near steam pipes or other sources of heat, or upon prolonged storage and compression.

### Notice:

Katosan shall not be responsible for the use of this information, or of any product, method, or apparatus mentioned, and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and for the health and safety of employees and purchasers of your products. No warranty is made of the merchantability of fitness of any product, and nothing herein waives any of the Seller's conditions of sale

#### **Katosan Hong Kong Ltd.**

Headquarter: 3806 Central Plaza, 18 Harbour Road, Wanchai, Hong Kong  
Tel France : +33607871031

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Pastilled (granules & flakes) forms of low to medium softening point resins may fuse, block, or lump under the following conditions:

- (1) during hot weather months.
- (2) if stored near steam pipes or other sources of heat.
- (3) upon prolonged storage.

Blocking or fusion of the product does not indicate any degradation in quality or performance.

Pastilled (granules & flakes) resins are prone to gradual oxidation, resulting in darkening or changes in the resin's solubility or compatibility in solvents and polymers. The rate of oxidation is contingent upon the type of resin, but good manufacturing practice suggests that older stocks be used first. These resins have been stored for up to one year with no observable change in properties. For storage periods exceeding half a year the material should be re-tested to verify compliance with product specifications, but there is no indication that these products cannot be stored for many years without affecting performance.

All pastilled (granules & flakes) resins will form some fine dust during normal storage and handling and can form explosive dust-air mixtures. The material may accumulate a static charge which could provide an ignition source. Equipment used to process resins should be grounded to minimize the accumulation of static charge.

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