INTERNAL LUBRICATION FOR RIGID PVC & VINYL RESINS

G60

INTERNAL LUBRICANT

FASTER GELATION / ENHANCED DISPERSION / IMPROVED MELT FLOW

ROSHA POLYMER G60 is a dicarboxylic acid ester of saturated fatty alcohols, supplied as a slightly yellowish powder. It combines excellent PVC compatibility with **improved gelation, shorter gelation time and markedly enhanced particle dispersion throughout the PVC compound**. G60 delivers outstanding internal-lubrication performance in PVC injection molding.

ENHANCED PARTICLE DISPERSION

Markedly improves particle distribution throughout the PVC compound, promoting a more homogeneous material.

OUTSTANDING INJECTION PERFORMANCE

Combines internal lubrication and improved melt flow to support cavity filling and complex PVC parts and fittings.

IMPROVED & FASTER GELATION

Promotes PVC gelation and shortens gelation time, helping establish a cohesive, uniform melt during processing.

VERSATILE STABILIZER COMPATIBILITY

Suitable with lead, tin, calcium/zinc and calcium-organic stabilization systems used in rigid PVC.

Specified data

PARAMETER	VALUE	TEST METHOD
Dropping point (°C)	**49-52**	DIN ISO 2176
Acid value (mg KOH/g)	**0-2**	DIN EN ISO 2114
Hydroxyl value (mg KOH/g)	**0-10**	DIN 53240
Particle size, 40 mesh (%)	**≥ 98**	DIN 42321
Volatiles (%)	**≤ 1.0**	DIN 53242
Lovibond color, 1-inch cell, yellow	**0-4**	DGF C-IV 4b
Lovibond color, 1-inch cell, red	**0-1.2**	DGF C-IV 4b
Iodine value (g I_2/100 g)	**0-1**	DIN 53241
Saponification value (mg KOH/g)	**168-178**	DIN EN ISO 3681

G60 is an internal lubricant. Balance its use with the external lubrication, stabilization and processing-aid requirements of the complete formulation.

APPLICATIONS, ADDITION LEVELS & HANDLING

Built for efficient PVC injection

G60 offers particular value in PVC injection molding through faster gelation, enhanced particle dispersion and improved melt flow. It also serves extrusion, transparent PVC and other vinyl-resin applications.

APPLICATION	PROCESSING CONTRIBUTION
Injection-molded parts & fittings	Outstanding processing contribution: faster gelation, improved dispersion and melt flow for cavity filling.
Pipe, window & technical profiles	Internal lubrication to support consistent flow through extrusion tooling.
Compact & foamed sheets	Melt-flow adjustment within a formulation balanced for sheet formation or foam processing.
Transparent PVC articles	Compatible internal lubrication; assess finished-article clarity in the complete formulation.
Other vinyl resins	Processing additive for selected resin systems, subject to formulation evaluation.

Recommended dosage

RESIN SYSTEM	ADDITION LEVEL
Rigid PVC	**0.5-2.0%**
Other resins	**0.5-1.5%**

Compatible with the usual PVC stabilization systems. Select the optimum addition level for the resin, filler loading, other additives and processing conditions.

Density

PROPERTY	TEMPERATURE	VALUE
Solid density	20 °C	**0.951 g/cm³**
Powder bulk density	20 °C	**0.575 g/cm³**

Packaging, storage & shelf life

Supplied in **25 kg bags**. Store at room temperature in the original sealed packaging under cool, dry conditions. Temperatures above **30 °C** may cause agglomeration. Shelf life is **at least two years** when stored as recommended.

Health & safety: Consult the product Safety Data Sheet for handling precautions and appropriate workplace practices.

ROSHA POLYMER | Technical & commercial enquiries **+98-2156231972**
No. 5, 2nd Golbarg, Narenjestan Blvd., Shams-Abad Industrial Estate, Tehran