

One component, polyisobutylene based primary sealant for insulating glass

TENAGLASS®-3

GENERAL DESCRIPTION

Tenaglass-3 is a polyisobutylene based hot melt sealant specially formulated for use in the production of insulating glass units. It should always be used as a primary sealant together with compatible secondary polysulphide sealant, such as Tenaglass-2 or polyurethane sealant, such as Tenaglass-PU. The resulting sealed units are then capable to comply with requirements of EN 1279, Parts 2 and 3.

MAIN PROPERTIES

- Excellent adhesion to glass and metal spacer materials (aluminium, galvanized steel, stainless steel)
- · Very low moisture vapour transmission rate
- Very low gas permeability
- · Acts as a thermal break
- · No cleaning or purging of dispensing equipment required

TECHNICAL DAT	Α
Packaging	

Packaging	7 kg cylindrical slug
Chemical base	Compounded polyisobutylene containing
	non-volatile materials
Colour	Black
Appearance	Solid resin
Density	1,2 kg/liter
Application temperature	120 °C to 150 °C
Recommended	2 to 4 g per linear metre on each
consumption	side of the spacer bar, depending
	upon spacer profile type
Shelf life/storage	12 months from production date in
	unopened, undamaged original
	packaging, in cool, dry place in
	temperature range from +5 °C to +25 °C

HEALTH AND SAFETY MEASURES

Please refer to information given in safety data sheet for Tenaglass-3. Follow actual legislation requirements in the place of product application. Always use individual protection measures when working with sealant. Avoid uncured material contact with skin.

LEGAL NOTES

TENAX reserves the right to change the properties of its products. In all cases the most recent version of product description applies.



INSTRUCTIONS FOR USE

Important

Before starting any work with Tenaglass-3 carefully read safety data sheet. Ensure that only instructed persons are allowed to work with the product. Gloves and eye protection are recommended.

Unit preparation

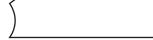
Tenaglass-3 shows excellent adhesion to cut, ground or polished glass as well as all metallic materials traditionally used for spacer bars. It is essential that all surfaces are clean and dry. Remove the coatings from the edge of glass pane unless indicated otherwise by glass supplier.

Typical application together with Tenaglass-PU or Tenaglass-2

Tenaglass-3 is suitable for use with all types of primary seal dispensing equipment. Due to specific minor differences in dispensing machinery, the best performance is achieved by assessing the specific weight of coating (grams per metre of joint) on each side of the spacer bar rather than by specific temperature and pressure settings. Specific weight of coating should be within the range from 2 to 4 g/m on each side of the spacer. Additionally, it should be as uniform as possible on front and rear sides of the spacer bar, with weight difference not exceeding 0,5 g/m.

The spacer bar profile also determines the coating weight to be achieved. Spacer bars for dual seal system can accommodate higher coating weight. For the straight sided spacer bar lower coating weight (from 2 to 3 g/m) than for the dual seal system spacer bar (see figure) will be required.





Straight-sided spacer bar

Dual-seal spacer bar

Specific weight of coating below 2 g/m will lead to uncoated surface areas of glass and spacer substrates and imperfections in the bulk of the sealant layer. Specific weight of coating exceeding 4 g/m will lead to penetration of excess material into insulating glass cavity.

Excess consumption of material will also change required force to press the unit which can lead to drop of edge seal strength and/or excessive unit thickness.

It is important to obtain continuous, uniform layer of primary sealant and to dispense additional material into the cavity where the corner keys are connected or a bent spacer system used. Ensure the extruded sealant is not touched as this may adversely affect the wetting of the substrates and adhesion of sealant in the compressed primary seal. For further recommendations on particular aspects of handling and application of Tenaglass-3 please contact our local representatives.







