

# Polymer ST 77

Flexible adhesives for transport and assembly with high strength at good elongation

## Technical properties\*

Appearance	colorless, transparent
Viscosity	ca. 40,000 mPas
Plasticizer	Elatur® CH
Tensile strength in formulation**	3.2 N/mm <sup>2</sup>
Elongation in formulation**	475%

\*no specification data, \*\* formulation available upon request

## Applications

Polymer ST 77 is free of phthalates and is highly recommended for demanding applications where a balanced stress-strain behavior is required as in transport and assembly applications.

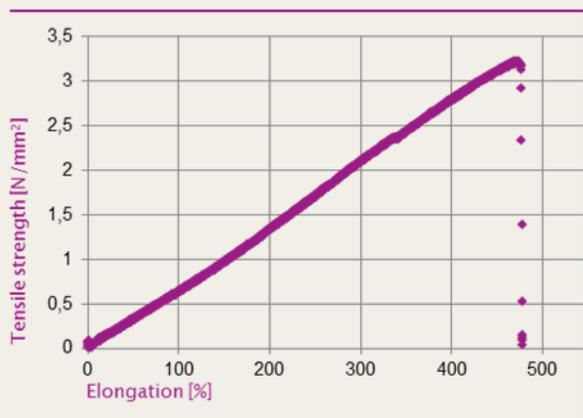
Examples for the use of Polymer ST 77-based formulations are the assembly of superstructural parts, bumpers, etc. Mechanical fastening is often avoided as it could cause damage to the materials used. In addition, it could negatively affect the design.



## Benefits

For assembly applications, adhesives must be processed quickly and provide rapid strength development. In these cases, Polymer ST 77 is a suitable solution as its stress-strain behavior can be tuned to the application needs.

### High modulus and high elongation with Polymer ST 77



Polymer ST 77 shows excellent adhesion to aluminum, steel, plastics and fibre reinforced composites.

Having the possibility to formulate without tin catalysts and phthalate plasticizers turns Polymer ST 77 to be an attractive product solution for green and sustainable adhesive formulations.

## Processing

For the right choice of raw materials, especially when it comes to fillers as e.g. CaCO<sub>3</sub>, it is recommended to use products at lowest water content. Fillers can be pre-dried at higher temperatures before use.

The temperature of the product containers should not vary too greatly from the surrounding temperature, as water could condense and contaminate the product. This is of importance especially when raw materials are stored outside during winter time.

It is necessary to keep all equipment used for processing clean and dry. Surfaces can be cleaned with volatile solvents such as acetone, if necessary.

The product is activated for reaction once the catalyst is added, i.e. the product starts curing when it comes into contact with moisture. Afterwards, it must therefore be kept in dry and closed containers.

## Packaging

950 kg IBC

Samples: 1L aluminum bottle

## Shelf life

In closed containers stable for 9 months at temperatures up to 104 °F (40 °C)

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