

Technical Information

Polymer ST 77**Flexible adhesives for transport and assembly with high strength at good elongation****Applications**

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

Examples for the use of Polymer ST 77-based formulations are the assembly of super structural 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.

Technical properties (no specification data)

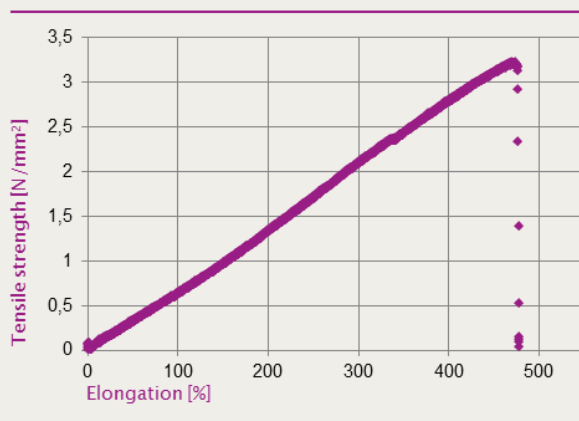
Appearance	colourless, transparent
Viscosity	ca. 40 000 mPas
Plasticizer	Elatur® CH
Tensile strength in formulation*	3.2 N/mm ²
Elongation in formulation*	475 %

*formulation available upon request

**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 behaviour 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_3 , it is re-commended 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

Shelf life

In closed containers stable for 12 months at temperatures up to 104 °F (40 °C).

Registration status

The ingredients of Polymer ST 77 are listed in the following chemical inventories:

EINECS/ELINCS, TSCA, DSL, PICCS, TCSI

Further information is available on request.

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

Evonik Nutrition & Care GmbH
Charlottenburger Straße 9
21502 Geesthacht, Germany
Phone +49 4152 8092-0
Fax. +49 4152 79156
www.evonik.com/interface-performance
interface-performance@evonik.com

