

Technical Information

Polymer ST 81

High modulus flexibles adhesives up to 10 N/mm²

Applications

Polymer ST 81 addresses applications where tensile strength of $>> 6\text{N/mm}^2$ is required.

This is especially important in applications that are covered by 1C and 2C-polyurethanes today. Showing an outstanding high tensile strength Polymer ST 81 allows formulators to enter markets such as wood construction, transport and automotive, assembly as well as light-weight construction.

Technical properties (no specification data)

Appearance	colourless, transparent
Viscosity	ca. 40,000 mPas
Plasticizer	none
Tensile strength in formulation**	ca. 10 N/mm ²
Elongation in formulation**	ca. 60 %

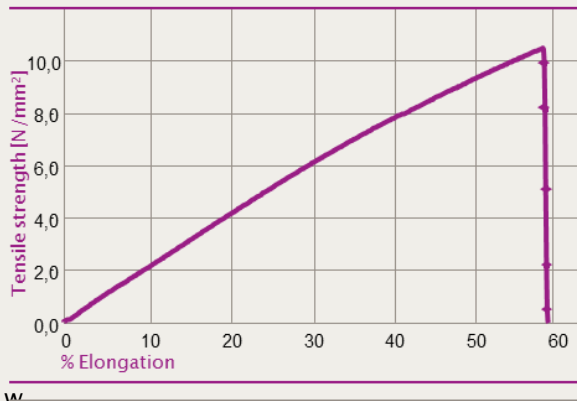
*formulation available upon request



Benefits

As Polymer ST 81 does not contain plasticizers, it offers a large variability in formulation design. It allows the formulation of both tin- and phthalate-free products. Furthermore, its excellent build-up of strength up to 10 N/mm² while being manually applicable makes it an interesting product to replace polyurethane adhesives.

Polymer ST 81 for high modulus applications



Processing

For the right choice of raw materials, especially when it comes to fillers as e. g. CaCO₃, 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 in contact with moisture. Afterwards, it must therefore be kept in dry and closed containers.

Packaging

950 kg IBC

Samples: 1 l aluminum bottle

Shelf life

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

Registration status

The ingredients of Polymer ST 81 are listed in the following chemical inventories:

EINECS/ELINCS, TSCA, DSL, PICCS, TCSI

Further information is available on request.

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