

## Product Specification

## TEGO® RC 902

TEGO® RC 902 is a solvent-free silicone acrylate for paper and film release coatings.

This product is used to achieve **easy release** properties.

## Physical properties

		Remarks
Release properties	premium/easy	-
Active matter	100 %	Volatile content < 1 %
Viscosity, 25 °C (77 °F)	~ 420 mPas	The viscosity of TEGO® RC 902 can be reduced considerably by "warm" application
Specific gravity, 25 °C (77 °F)	approx. 1 g/cm <sup>3</sup>	-
Colour	amber	The colour of our TEGO® RC Silicones is absolutely irrelevant as to their efficiency/properties, as guaranteed by our test certificate
Appearance	clear to slightly turbid	-
Flash point (DIN 51758)	> 100 °C (> 212 °F)	-
Guaranteed pot life (with photoinitiator included)	min. 72 h	RC Silicone blends with photoinitiator added must be stored in the dark at temperatures not exceeding 30 °C (86 °F). Under these conditions, the pot life can reach 12 months. Please stir and test before using the material again.
Inerting	necessary	UV curing requires inerting by nitrogen to < 50 ppm residual oxygen in the curing chamber.

## Application fields

TEGO® RC 902 is used for the manufacturing of release coatings with easy release properties for self-adhesive products, like e. g.:

- Self-adhesive labels
- Self-adhesive tapes
- Hygiene products
- and many more

## Advantages

TEGO® RC 902 exhibits excellent release characteristics, even with aggressive self-cross-linking adhesives.

## Dosage/Handling

TEGO® RC 902 is primarily used for UV curing (after addition of a suitable photoinitiator).

Generally, in order to achieve good adhesion on all substrates, the addition of 30 % TEGO® RC 711 or 15% TEGO® RC 722 is recommended. This dosage has no impact on the premium/easy release value.

If higher proportions of TEGO® RC 711 or TEGO® RC 722 are employed, controlled increase in the release value is possible. The required proportion is determined by the adhesive used.

If combined with other TEGO® RC Silicones, stirring is necessary prior to application.

## Suitability tests

Before using any new silicone formulation, we recommended checking that the final product meets the target requirements.

This includes but is not limited to:

- Compatibility of release coating against targeted adhesives using aging tests at both low and high temperatures.
- The influence of electron beam or Gamma irradiation on aging and release, e. g. sterilization.
- The influence of secondary UV exposure on release and aging, e. g. when curing UV printing inks on label stock with a clear face stock.

Thermal aging or post-irradiation may cause a property change in the final product.

## Storage stability

It is recommended that TEGO® RC 902 is stored in the dark at temperatures not exceeding 30 °C (86 °F).

Under these conditions, the storage stability of TEGO® RC 902 is 24 months subject to storage in original, sealed containers.

## Packaging

25 kg (55 lbs) plastic containers  
Pallet size: 12 x 25 kg = 300 kg

200 kg (440 lbs) plastic lined steel drums  
Pallet size: 4 x 200 kg = 800

1 000 kg (2 200 lbs) container

## Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

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