

Product Apr 2024

Phoenix Release RC58 (PSA release coating)

Product description

Phoenix release RC58 is a coater ready release coating suitable for paper liner, film liner and other materials incl. non- wovens

The RC58 coating can be applied via different coating processes like gravure (Flexo), doctor blade and multi roll coating technology. The coating needs to be cured with UV light, inertisation (N2 blanket) is required to a level of <50ppm residual O2.

The RC58 coating will result in an easy release level, depending on adhesive used.

Features

The RC58 is a fast-curing release coating, which guarantees a high level of cross-linking under normal production conditions. This results in less silicone migration towards the pressure sensitive adhesive.

The RC58 release coating does have:

- Excellent coating anchorage on paper and film substrates
- High mechanical resistance
- Excellent chemical resistance
- Easy medium release release force depending on the adhesive used
- Excellent coating performance and coating quality
- Suitable for a wide range of pressure sensitive adhesives; acrylic water based and solvent as well
 as standard and UV curable hotmelts
- Stable release force

Precautions

The Phoenix release RC58 formulations needs to be stirred for at least 5 mins. prior to application. The RC58 formulation can be stored in a dry environment with temperature between 5 - 40 °C. The shelf life is 12 months from date of production. Close container immediately after usage.



Product performance RC58

| Property | Value | Units |
|--|---------------|---------|
| | | |
| Viscosity: | 1.200 - 1.450 | mPa.s |
| Appearance: | milky white | |
| RF Tesa 7475 FTM3: | 7-10 | cN/25mm |
| RF Tesa 7475 FTM10: | 8-10 | cN/25mm |
| RF Tesa 4090 FTM3: | 5-7 | cN/25mm |
| RF Tesa 4090 FTM10: | 5-8 | cN/25mm |
| • Subsequent Adhesion FTM11: | >90 | % |

Important factors

It is of crucial importance that the machine set up is correct:

- Using a Corona treater prior to applying the release coating will improve anchorage
- UV lamps need to have the correct output and need to be clean
- Quartz plate, protecting the UV lamps, needs to be clean. If not cleaning with IPA or EtAc is required
- The Nitrogen blanket needs to function well; Oxygen level needs to be below 50 ppm in UV chamber
- Anilox roll or multi roll coating head needs to be cleaned prior to coating job; at least 1 gsm of the RC58 coating needs to be applied
- Coating quality needs to be tested on paper with methylene blue, no pinholes

Background

The information is based on our experience. Because of the differences in materials for printing, processing conditions and test criteria this information can only be of an advisory nature. Our data reflect the latest state of our knowledge and are based on the characteristics established in the laboratory and on practical experience. Your own tests with the original materials under the respective conditions are indispensable. We disclaim any liability for applications for which this product is not foreseen. The user must determine under his own production conditions if the product meets his requirements.