

SOLURYL RH-615

Styrene-Acryl Emulsion for Heat Seal application

Features

- Clear and transparent
- Good adhesion
- Good heat seal property
- Good viscosity stability as pH

Typical Properties

| | |
|------------------------------------|----------------------|
| Appearance | Translucent emulsion |
| Total Solids, wt% | 46.0 |
| Volatile | Water |
| Neutralizing agent | Ammonia |
| Molecular Weight | >200,000 |
| Acid Number, mg KOH/g | 61 |
| Tg, °C | -10 |
| Viscosity, cps, (25°C, Brookfield) | 400 |
| Density, g/ml | 1.05 |
| pH, 25°C | 8.5 |
| Freeze/Thaw Stability | 5 cycles |

Compatibility of Soluryl RH-615

Soluryl RH-615 emulsion is compatible with a wide range of other acrylics. Dilution with glycols, glycol ethers and alcohols is excellent. It is advisable to pre-mix solvents before adding to the polymer to avoid any possible "solvent shock".

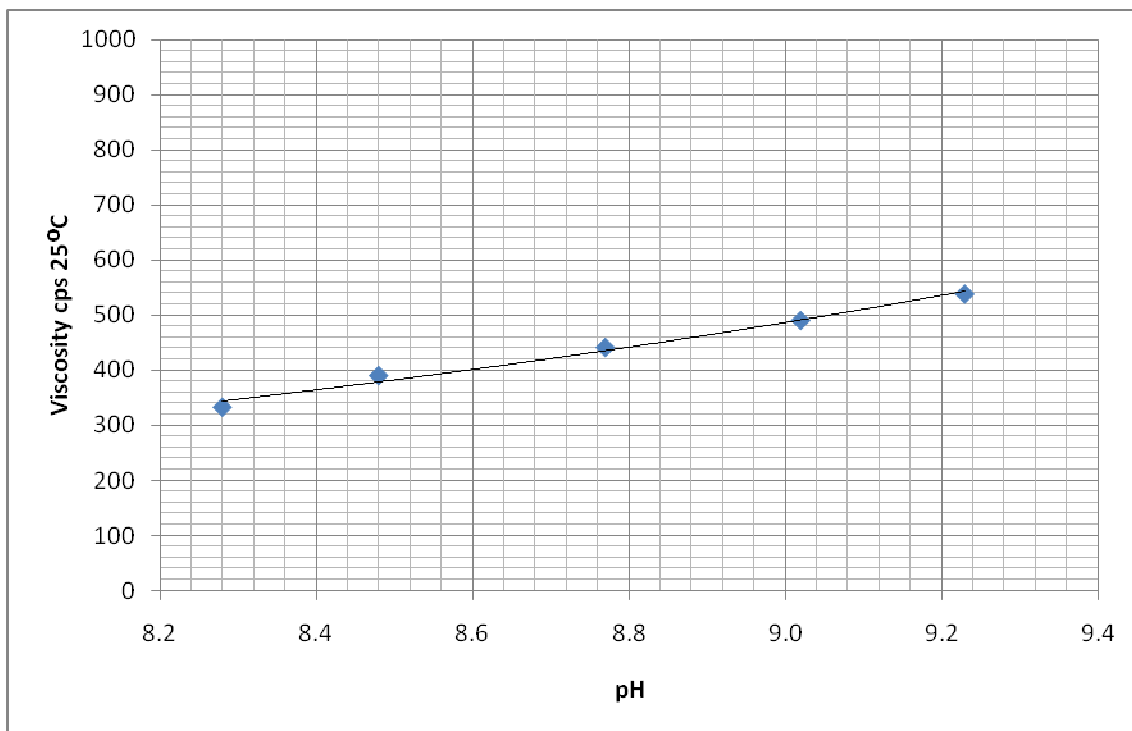
Recommendation for end-use

- Blister pack between PVC and Aluminium foil.

Safety Information

Soluryl RH-615 is not formulated to contain any hazardous or regulated materials such as lead, cadmium, mercury and chromium compounds. And raw materials for Soluryl RH-615 and our manufacturing process do not include any hazardous or regulated materials.

pH vs Viscosity



Guide formulation

Pigment Grinding for Blister pack application

| Ingredients | Yellow Base | Red Base | Blue Base | Black Base |
|----------------------------|-------------|----------|-----------|------------|
| Water | 32.5 | 34.5 | 32.5 | 36.5 |
| BYK 190 ¹ | 2.5 | 2.5 | 2.5 | - |
| Disperse 760W ² | - | - | - | 2.5 |
| Nopco 8034L ³ | 1 | 1 | 1 | 1 |
| Soluryl 802 or S-812 | 30 | 30 | 30 | 30 |
| Pigment ⁴ | 34 | 32 | 34 | 30 |
| Total | 100 | 100 | 100 | 100 |

1. BYK, 2. Tego, 3. Sannopco

4. Yellow: Diarylide Yellow(PY12,14), Red: Lithol Rubine 4B(PR 57), Blue: Phthalocyanine Blue(PB15:3), Black: Carbon Black(PB 7)

Water Base Ink for Blister pack application

| Ingredients | Yellow ink | Red ink | Blue ink | Black ink |
|-----------------------------|------------|---------|----------|-----------|
| Pigment base | 38.8 | 38.8 | 38.8 | 38.8 |
| Soluryl RH-615 | 57.9 | 57.9 | 57.9 | 57.9 |
| Surfynol 104E ¹ | 1 | 1 | 1 | 1.5 |
| Nopco 8034L ² | 0.5 | 0.5 | 0.5 | 0.5 |
| Viscosity, sec, Zahn cup #4 | 10-12 | 10-12 | 10-12 | 10-12 |

1. Air product, 2. Sannopco

The information given herein and other otherwise supplied to users is based on our general experience and where applicable, on the results of tests on samples of typical manufacture. However, because of the many factors which are outside knowledge and control, which can effect the use of these products, users must rely on their own judgment and we cannot accept liability for any injury, loss or damage resulting from reliance upon such information.

OPV for Blister pack application

| Ingredients | Heat resistance |
|-----------------------------|-----------------|
| Soluryl RH-615 | 85 |
| Surfynol 104E ¹ | 1 |
| Nopco 8034L ² | 0.5 |
| Water/IPA | 13.5 |
| Total | 100 |
| Viscosity, sec, Zahn cup #4 | 17-25 |

1. Air products, 2. Sannopco

Test Reference

Water Base Ink formulation for Blister pack application

| Application | Speed of lamination | Temperature | Peel strength |
|-------------|---------------------|-------------|---------------|
| | m/min | °C | Kgf/3inch |
| PET sheet | 50 | 155 | 1.2 |