

ROVPOL 1100 (Palm Based Polyol)

ROVPOL 1100 is a natural based polyol from palm oil derivative. It is suitable to make polyurethane adhesives and sealant by commonly blending with isocyanate in appropriate ratios and with other necessary additives.

1. Properties

Item	Specification
Appearance	Clear, light brown liquid
Viscosity	5,000-9,000 cps (26-28°C)
Specific Gravity ($H_2O = 1$)	1.05
Acid Value	40-50 mgKOH/g
Hydroxyl Value	120-140 mgKOH/g
Moisture Content	<0.5%
Molecular Weight	900-1,000

2. Applications

ROVPOL 1100 can be used to make adhesives for oil filter, shoe sole, flooring and to make sealant for gap filling purpose. It can also be used as binder, e.g.: binder for fiber or rubber crumb.

3. Precautions

- 3.1 Store at cool, dry, clean and dark place.
- 3.2 In case of skin contact, wash thoroughly with soap and water.
- 3.3 In case of eye contact, wash out with water for more than 15 minutes and immediately get medical care.
- 3.4 If swallowed, immediately call a doctor.

4. Shelf Life

6 months under above mentioned storage condition

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5. Packaging

Drum: 200 kg* (**other packing size is possible depending on volume of purchase*)

6. Additional Information

Recommended mixing ratio for palm based polyurethane adhesive

Material	Parts by Weight
ROVPOL 1100	100
Isocyanate	50

Test results of palm based polyurethane adhesive using the above ratio

Test	Result
Tack Free Time	50-60 minutes
Curing Time	170-185 minutes
Shear Strength	26.20 ± 1.20 kgf/cm ²
Peel Strength	5.23 ± 0.71 kgf/25mm

** All above tests were carried out at 27-30°C, 55-75% RH*

This information given above is true, based on our own study, research work and experience. Rovski Industries Sdn Bhd does not provide warranty or guarantee for products made at different conditions for which are beyond our control. All separate trial cases should be studied and tested to obtain own parameter before any order and delivery.

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