

TECHNICAL DATA SHEET

UREPAC[®] RIGID 30 34 ECO

PRODUCT DESCRIPTION

UrePac[®] Rigid 30 34 ECO is a two component, polyurethane rigid foam comprising of a portion of recycled polyol content, polyether polyol and PMDI Isocyanate. The system has been developed for use as a general purpose, 34 kg/m³ density insulating foam.

PRODUCT FEATURES

- Fire Retardant
- Zero ODP
- Excellent Insulation performance

UREPAC RIGID 30 34 ECO (POLYOL) SPECIFICATION

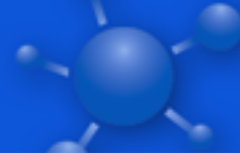
| | |
|--------------------------------|-------------------|
| Appearance: | Dark Amber liquid |
| Specific Gravity (22°C): | 1.10 ± 0.02 g/mL |
| Viscosity (Brookfield) (22°C): | 500 ± 100 mPa.s |

Spindle 2 Speed 50

UREPAC 2001 (ISOCYANATE) SPECIFICATION

| | |
|--------------------------------|--------------------|
| Appearance: | Clear Brown liquid |
| Specific Gravity (22°C): | 1.23 ± 0.02 g/mL |
| Viscosity (Brookfield) (22°C): | 210 ± 70 mPa.s |

Spindle 1 Speed 50



MIXED SYSTEM SPECIFICATION

| | | |
|-------------------|-----------|-----------------------------|
| Mix Ratio: | By Weight | 100 Polyol : 110 Isocyanate |
| | By Volume | 100 Polyol : 100 Isocyanate |

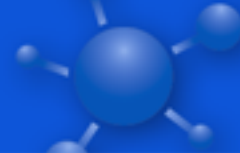
| Test | Specification | Units |
|---|---------------|-------------------|
| Cream Time (22°C): <i>Time from when mixing commences till the liquid starts to expand.</i> | 30 ± 3 | seconds |
| String time (22°C): <i>Time from when mixing commences till "strings can be pulled from the surface of the rising foam.</i> | 180 ± 10 | seconds |
| Rise time (22°C): <i>Time from when mixing commences till the foam finishes expanding.</i> | 280 ± 20 | seconds |
| Typical Demould (22°C) | 30 | minutes |
| Free Rise Density (Cup) (22°C): | 35 ± 2 | kg/m ³ |

(Obtained from Laboratory 60g cup test, results will vary depending on mix quantities)

TYPICAL CURED FOAM PROPERTIES

| Test | Method | Specification |
|-------------------------------------|---|--------------------------|
| Core Density: | ASTM D1622 | 28 ± 2 kg/m ³ |
| Dimensional Stability (70°C) | ± 5% Volume (@ 24 hours) | Pass |
| Closed Cell Content: | ASTM D6226 | 90-95% |
| Initial K Value: | ASTM C518 | 0.0220 W/mK |
| R Value (@ 50mm) | Insulation thickness in meters divided by the K value | 2.27 |
| Compressive Strength: | ASTM D1621 | 200 ± 10 kPa |
| Water Absorption | ASTM D8242 | < 5% |
| Horizontal Burn | ISO 3582 | |
| Burn Time: | | 5 sec |
| Burn Length: | | 24 mm |
| Burn Rate: | | 0.37 mm/sec |

After 7 days cure @ 22°C unless otherwise specified.



PACKAGING OPTIONS:

| Packaging | UrePac Rigid 30 34 ECO Polyol | UrePac 2001 Isocyanate |
|-----------------------|-------------------------------|------------------------|
| 205L Closed Head Drum | 210kg | 250kg |
| 1000L IBC | 1050kg | 1250kg |

STORAGE

POLYOL should be stored in closed containers under dry conditions out of direct sunlight between 18 and 25°C.

ISOCYANATE should be stored separately from *Component A*, but under the same conditions.

Both products will have a minimum shelf life of six months when stored under these conditions.

CURED PRODUCT: Like all polyurethanes based on aromatic isocyanates this foam is **not** UV stable and will have surface discolouration and degradation if exposed to UV radiation and sunlight. Please speak to our technical consultants regarding your options if this product is required for use in external applications.

PROCESSING CONDITIONS

COMPONENT PREPARATION

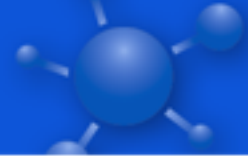
POLYOL does not need to be mixed prior to use.

ISOCYANATE does not need to be mixed prior to use.

Both Components should be preconditioned to 22-25°C to ensure that the components will have consistent reactivity and performance. If processing in a machine this usually requires recirculation for at least an hour prior to production commencing.

MOULD TEMPERATURES

Mould temperatures should be conditioned to 35-45°C to ensure optimal skin definition and demould times for this product.



DISPOSAL

Liquid Systems: Liquid polyol or isocyanates should be disposed of with an EPA approved industrial waste company which meet all applicable federal, state and local laws and regulations.

Cured Urethanes: Fully reacted and cured polyurethanes are inert and can be disposed of as regular landfill.

Container: Dispose of decontaminated drums in accordance with all applicable federal, state and local laws and regulations.

Do Not Re-use Empty Container.

Do Not Cut or Weld Empty Container.

WATER CONTAMINATION CAN CAUSES DANGEROUS PRESSURE BUILD UP IN ISOCYANATE DRUMS

DISCLAIMER

This information is given in good faith but without warranty and is supplied to users 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 our knowledge and control that can affect the use of these products, it is imperative that the end user is satisfied that the material will meet their individual processing and performance requirements. Pacific Urethanes Pty Ltd cannot accept liability for any injury, loss or damage resulting from reliance upon this information.

All sales of this product shall be subject to Pacific Urethanes' Terms and Conditions of Sale. For a copy of these terms please contact us at info@pacificurethanes.com.

For additional information, consult the Material Safety Data Sheet for this product.

Revision Number: 05 (Updated Description)

Revision Date: 29/01/21

