

TECHNICAL DATA SHEET

UREPAC® RIGID 50 15

PRODUCT DESCRIPTION

UrePac® Rigid 50 15 is a two component, polyurethane rigid foam comprising of a polyether polyol and MDI based isocyanate. The system has been developed as a very low density, open cell, thermoformable block foam for acoustic insulation applications.

PRODUCT FEATURES

- Fire retardant (Addition of UrePac +3106 used to meet Automotive under bonnet fire performance specifications)
- Excellent Acoustic performance
- Slow reactivity for block foam production.

UREPAC RIGID 50 15 (POLYOL) SPECIFICATION

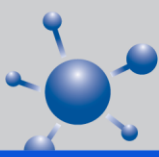
Appearance:	Clear Colourless liquid
Specific Gravity (22°C):	1.03 ± 0.02 g/mL
Viscosity (Brookfield) (22°C):	1,000 ± 100 mPa.s

Spindle 1 Speed 20

UREPAC ISO2001 MDI (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



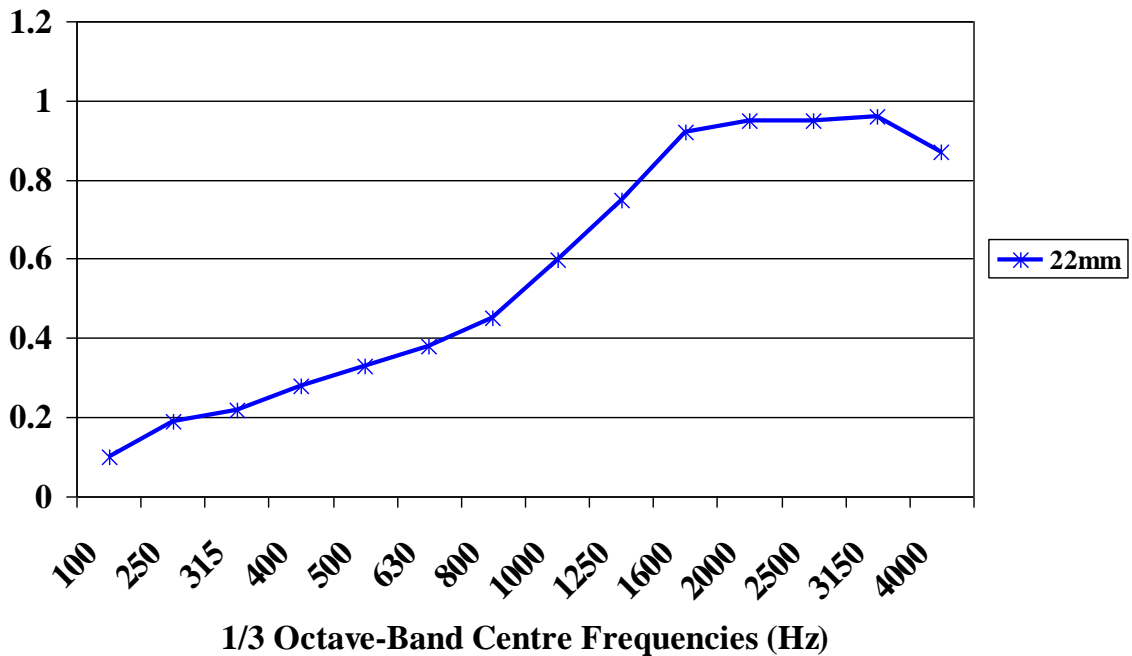
MIXED SYSTEM SPECIFICATION

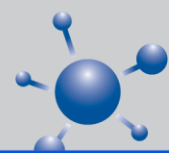
Mix Ratio: By Weight 100 Polyol : 100 Isocyanate : 12.5 UrePac + 3106

Test	Specification	Units
Cream Time (22°C): <i>Time from when mixing commences till the liquid starts to expand.</i>	50 ± 5	seconds
String time (22°C): <i>Time from when mixing commences till "strings can be pulled from the surface of the rising foam.</i>	170 ± 10	seconds
Rise time (22°C): <i>Time from when mixing commences till the foam finishes expanding.</i>	210 ± 30	seconds
Cut Core Density (22°C):	15 ± 1	kg/m ³

(Obtained from Laboratory 212.5g box test, results will vary depending on mix quantities)

ACOUSTIC PERFORMANCE





FIRE PERFORMANCE

(Meets Ford Specification WSS-M99P32-A)

BURN RATE (SAE J369):

- At room temperature: Self Extinguishes immediately, no measurable burn rate
- At 150°C: self extinguishes within 12 seconds, no measurable burn rate

IGNITABILITY (VDE 0471 PART 2)

- Hot Wire at 750°C: Does not ignite

PACKAGING OPTIONS

Packaging	UrePac Rigid 50 15 Polyol	UrePac ISO2001 MDI Isocyanate
205L Closed Head Drum	210kg and 100kg	250kg
1000L IBC	1050kg	1250kg

UrePac +3106 supplied in 25kg bags

STORAGE

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

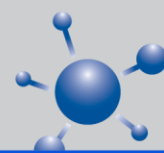
ISOCYANATE should be stored separately from the polyol component, but under the same conditions.

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:

All processing conditions are given as a guide only, it is the responsibility of the customer to satisfy themselves that the product is suitable for their requirements by running closely monitored trials prior to production.



COMPONENT PREPARATION

POLYOL should be mixed each day prior to use as the components can separate out overnight. If this component is held in day tanks they should be continuously agitated to prevent any separation during production.

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.

THEMOFORMING

To thermoform the foam sheets heat press to 180°C and press sheets for 45-60 seconds. It is normal to apply a decorative scrim to the sheets for improved finish of parts.

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.

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