

Purl[®]- GP42

Polyurethane, Closed Cell Foam - 43kg/m³

PRODUCT

DESCRIPTION PURL GP-42 is a medium-density rigid polyurethane foam system designed to provide a slow-reacting foam for hand mixed or machine-dispensed pour or injection with a free rise density of 43 kg/m³.

INTENDED

USES

- Commercial and industrial insulation and void filling applications, including pipe-in-pipe systems where the foam is either hand mixed or machine dispensed.

FEATURES

- Hand Mixing
- Excellent insulation properties for temperatures ranging from -30°C to 85°C
- 1:1 mix ratio for standard Graco Equipment
- The PURL range is made in Australia under ISO9001. It contains no Ozone-depleting potential and is well below the 'Greenstar' VOC threshold.

PRODUCT DATA

Purl Part A		PURL-GP42 Part B	
Appearance	Brown	Appearance	Yellow
Specific Gravity (25°C)	1.23 g/mL	Specific Gravity (20°C)	1.14 g/mL
Viscosity Cps (25°C)	225 mPa.s	Viscosity Cps (20°C)	630 mPa.s

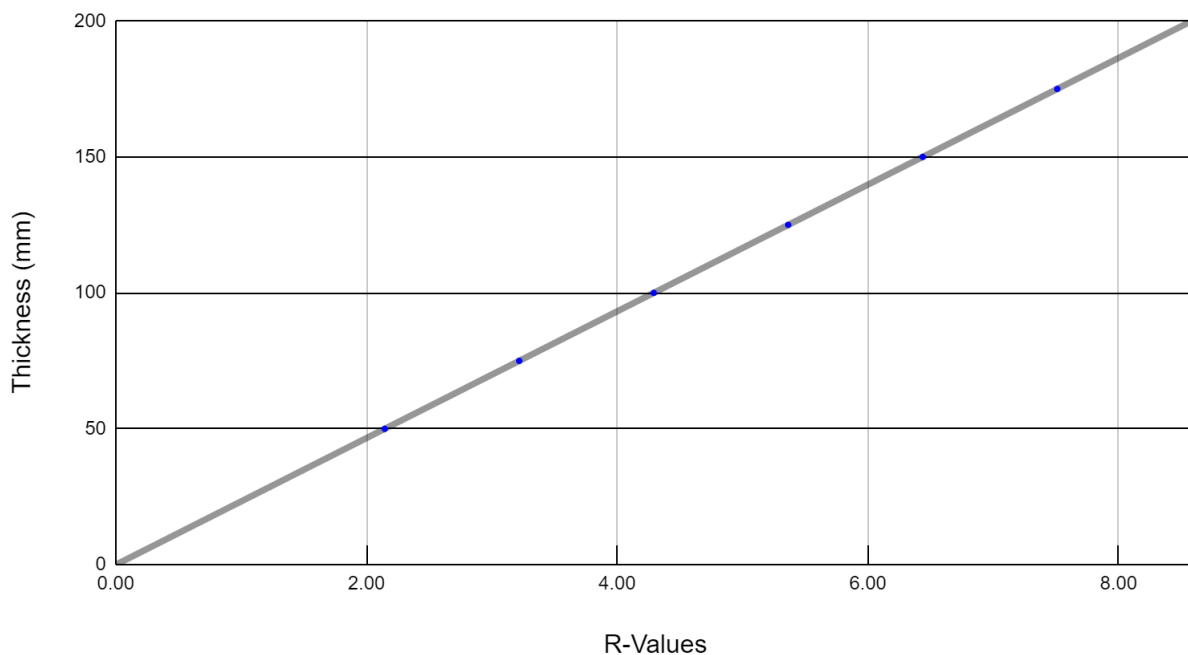
MIXED PRODUCT DATA

Mix Ratio	1:1
Cream Time	45 Seconds
Rise Time	360 Seconds
Free Rise Density	43 kg/m ³

TYPICAL CURED PROPERTIES

Test	Method	Result
Core Density	ASTM D1622	43 kg/m ³
10% Compressive strength perpendicular (50kg/m ³)	AS2498.3	300 kPa
Dimensional Stability	AS2498.6	
14 days @ -30°C		- 0.33%
14 days @ 70°C with 100% humidity		- 0.44%
14 days @ 100°C		- 0.82%
Closed Cell Content	ASTM D6226	> 95%
Thermal Conductivity (K Value)	ASTM C518	0.023 W/mK
R Value (@ 50mm)	Thickness (m) / K value	2.17
Compressive Strength	ASTM D1621	
Parallel		> 200kPa
Perpendicular		> 200kPa
VOC emissions "Greenstar" limit = 0.5mg/m2/hr	CETEC - D5116	0.01 over 24 hrs

PURL GP-42 R-Values at different Thickness



R-Values	Thickness
1.29	30
2.15	50
3.22	75
4.29	100
5.36	125
6.44	150
7.51	175

EQUIPMENT SETTINGS	Graco Equipment	Graco E-30 and AP Fusion Gun or GX7a
	Dynamic Spray Pressure	> 1500 psi
	Operating temperatures	45°C

LIMITATIONS

- If used externally, it must be protected from direct weather exposure with a spray-applied membrane.

APPLICATION

Equipment

Graco Equipment	Graco E-30 and AP Fusion Gun or GX7a
Dynamic Spray Pressure	> 1500 psi
Operating Temperature	45 °C

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STORAGE & HANDLING

Store in dry, shaded conditions away from sources of heat and ignition and in properly sealed containers. Protect from heat and frost. Protect contents from moisture. A shelf life of 12 months minimum is typical with unopened containers if stored at ambient conditions at 25°C. If either component is opened and partially used, it should be purged with nitrogen or desiccated air and resealed.

DISPOSAL

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

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

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

Do not reuse empty containers.

PACK SIZE

40L Kit

PU074 Purl Part A 25kg in a 20L Pail

PU097 Purl-GP42 Part B 22kg in a 20L Pail

400L Kit

PU074 Purl Part A 250kg in a 200L Drum

PU097 Purl-GP42 Part B 220kg in a 200L Drum

HEALTH & SAFETY

Water contamination can cause dangerous pressure build up in isocyanate drums. Caution must be taken when opening containers to slowly release the pressure. Please download the most recent SDS from the Liquimix website and read prior to using Liquimix products.

DISCLAIMER

The information contained herein is offered without charge and is for use by technically qualified personnel at their own risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and no warranty of any kind is made with respect thereto.

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