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TECHNICAL DATA

Erathane GP2

GENERAL PURPOSE POLYURETHANE FOAM

Erathane GP2 is a general-purpose rigid polyurethane foam product for pour in place applications. The formulation contains fire-retardants and has a free-rise density of 32 kg/m³.

The product can be hand-mixed or processed through a polyurethane foam dispensing equipment, we recommend and sell the GUSMER and CANNON range. This product has been designed for use in a wide range of insulation, buoyancy, or cavity filling applications.

COMPONENT PROPERTIES

	Isocyanate	Polyol
Appearance	Brown liquid	Clear, amber coloured liquid
Brookfield Viscosity (cps)	250	750
Specific Gravity	1.22	1.14

REACTION PROFILE

Laboratory results based on hand-mixing @ 20°C

Mix ratio by weight (Polyol : Isocyanate) 100:100

Mix Time (seconds)	20
Cream Time (seconds)	38
Gel Time (seconds)	175
Tack-Free Time (seconds)	235
Density (kg/m³)	32



This information is of general nature and is supplied without recommendation of guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Era Polymers cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.

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TYPICAL PHYSICAL PROPERTIES

Foamed Density (kg/m³)	35	
Compressive Strength @ 10% (kPa)	241	Based on AS2498.3)
Closed Cell Content (%)	>92	(Based on AS2498.7)
Thermal Conductivity-initial (W/mK)	0.0196	
Water Absorption @ 23°C (%)	1.46 (by volume)	(Based on AS2498.8)

STORAGE CONDITIONS AND HANDLING

The components are sensitive to humidity and should at all times be stored in sealed drums. The recommended storage temperatures are 18-25°C, which will give a normal shelf life of 3 months. At elevated temperatures problems may arise with pressure build-up within the drums. When opening these drums extreme care must be exercised in releasing the internal pressure. It is recommended that the drum contents should be mixed well before use.

HEALTH AND PERSONAL PROTECTION

Before handling these chemicals please consult the Material Safety Data Sheets for the two components. The polyol component contains tertiary amines. Contact with the skin or eyes must be avoided. Safety goggles and protective gloves should be worn whenever handling both of the chemicals. Splashes that come into contact with the skin must be wiped off immediately and the contaminated area washed with soap and water. Splashes in the eye must be flushed immediately with plenty of clean running water. If irritation occurs thereafter contact an eye specialist.

GENERAL INFORMATION

1. The degree of insulation is determined by the thickness of the foam used. For cavity fill or moulding applications, it is recommended to mould to a density of 38-40 kg/m³.
2. At temperatures less than 15°C the reaction rate of **GP2** will be much slower resulting in an increase in density, and reduction in foam yield and quality. Under these conditions we recommend the use of drum heaters or temperature controlled conditions for drums storage.



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