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Isofoam RM DP6329W

Zero Ozone Depletion Potential Rigid Polyurethane Foam System - Designed to mix at 50/50, by volume - Global Warming Potential = 1.0

Description

Isofoam RM DP6329W is the resin component of a two part, MDI based system for producing rigid foam by pour in place or moulded techniques. Designed for use on both high and low-pressure dispensing equipment.

The RESIN component is a fully formulated liquid mixture. Store at ambient temperatures (18-22°C). Keep drums closed when not in use, and thoroughly mix (with mechanical agitation) before application to re-disperse any separated ingredients.

The ISOCYANATE component is a brown liquid grade of crude diphenylmethane di-isocyanate (MDI). Store at ambient temperatures (18-22°C). Protect from frost. Keep drums closed when not in use.

Typical Properties

RESIN Component

Viscosity @ 20°C	700 - 800 mPa.s
Typical Specific Gravity @ 20°C	1.08

ISOCYANATE Component (Type 174)

Viscosity @ 20°C	300 - 400 mPa.s
Typical Specific Gravity @ 20°C	1.24

Mix Ratio 46.5% RESIN / 53.5% ISOCYANATE by weight
Mix Ratio 50% RESIN / 50% ISOCYANATE by volume

Typical reaction and density (at 50% / 50% by volume)

Cream time	34 - 42 sec	Laboratory cup mix
Gel time	143 - 173 sec	(electric drill stirrer)
Free rise core density	43 - 47 kgm ⁻³	both components @ 20°C

Safety Information

All polyurethane products are ORGANIC, combustible materials and may, therefore, present a fire risk if exposed to flame, fire and/or heat.

This Technical Data Sheet must always be used in conjunction with the appropriate Material Safety Data Sheets relating to the RES and ISO components of this product.

For further information please refer to BAXENDEN brochure, "Isocyanates and Polyurethanes Safety Advice".

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Application

Isofoam RM DP6329W was specially formulated to produce rigid polyurethane (PUR) foam for use on high or low-pressure machines.

Typical Physical Properties

The following physical properties were obtained from hand mixed, free rise foam samples at a mix ratio of 50% resin / 50% isocyanate by volume.

Properties	Test Method	Units	Value
Density (core)	BS4370	Kgm ⁻³	42.0
Thermal Conductivity @ 24°C mean temperature	Anacon ASTM C-518	Wm ⁻¹ K ⁻¹	0.034 (aged)
Closed Cell Content, corrected	ASTM D6226	%	92.4
Compressive Strength			
Parallel to rise	BS4370	kPa	312.8
Perpendicular to rise	BS4370	kPa	126.0
Dimensional Stability, max volume change 24 hrs @ 70°C	ASTM D2126	%	-0.90
Water Absorption: 5cm head 24 hours water abs/total surface area	ASTM D2127	Kgm ⁻²	0.08
Horizontal Burning Characteristics	BS4735-1974		
Extent of burn (1*)		mm	66
Burning rate (1*)		mm/sec	0.84

(1*) This is a laboratory scale test and should be used for comparative purpose. It is NOT to be used to assess the potential fire hazard of a material in use.

The above physical properties have been obtained under the conditions stated. The physical properties obtained when making different items or using alternative conditions to those detailed above, may vary and should be determined for the intended application.

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