

Syntheflex 9735-M-50

Isocyanate
5669

DESCRIPTION

SYNTHEFLEX 9735-M-50 is a two-component polyurethane system prepared and formulated to obtain flexible foam for cold moulding.

COMPONENTS

COMPONENT A: Polioli 9735-M-50
Mixture of polyols, which contains catalysers, and foaming agent additives.
Does not contain chlorofluorocarbon derivatives.

COMPONENT B: Isocyanate 5669
Modified diphenylmethane diisocyanate (MDI).

USES

The system is suitable for the production of flexible parts with a moulded density between 55 - 65 g/l.

This system is especially suitable for furniture (armrests, chairs, stools, etc.) and automobile (gear lever, steering wheels and finishes, etc.)

CONDITIONS OF USES

These systems could be used on both high and low-pressure machines (100-150 bar).

The recommended component temperature is in the range of $22\pm 2^{\circ}\text{C}$ and between 40 and 50°C for moulds.

Before the system is loading into the machine, component A (polyol) should be homogenised for 5 – 10 minutes with the required foaming agent and the suitable stirrer.

The machine volume flow should be calculated in relation to the weight of the finished part and the foam reaction times. Product unloading should be done in a period shorter than the cream time.

In order to achieve high quality finished parts, the mould designs are of a great importance, which are the insert thickness and shape, gas output orifices and mould angle.

Demoulding times would be between 3 and 8 minutes depending on the thickness and shape of the part.

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COMPONENTS CHARACTERISTICS

Characteristics	Units	5669	9735-M-50
Specific weight 25°C	g/cm ³	1.20	1.02
Viscosity 25°C	mPa.s	200	1300
Ignition temp.	° C	>190	>170
NCO content	%	25.0	-

SYSTEM SPECIFICATIONS

Measurement carried out in a test recipient at 22°C and at the mix ratio indicated within the company's standard method (MAN - S03).

MIX RATIO A / B : 100/60 ± 10 in weight.

Characteristics	Units	9735-M-50
Cream time	s	12 ± 2
Gel time	s	55 ± 5
Free density	g / l	50.5 ± 2.5

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SYSTEM PROPERTIES

Product		Unit	9735-M-50
Core density	DIN 53420	Kg/m ³	58
Tensile strength	DIN 53571	Kg/cm ²	1.4 ± 0.3
Elongation at break		%	100 ± 10
Tear strength	DIN 53575	N / mm	400 ± 50
Compression hardness	25%	K Pa	5 ± 1
DIN 53577	65%		14 ± 2
Compression Set 22 h 70°C, 50%	DIN 53722	%	8 ± 2
Fire resistance	UNE 23727	-	M4

STORAGE RECOMEMNDATIONS

A and B components are sensitive to humidity and should be stored in drums or hermetic containers. Storage temperature should be between + 15 and + 25°C. Storage at lower temperatures should be avoided as may cause the isocyanate crystallisation as well as higher temperatures that may cause polyol alteration.

With appropriate validity periods are of 6 months for component A (polyol) and 6 months for component B (isocyanate).

SAFETY RECOMMENDATIONS

Properly handled the system should not present significant risks. Contact should be avoided with the eyes and the skin. The product "Safety Specification Data" should be observed during the system preparation and handling.

SUPPLY

The material is normally supplied in non-returnable 220-litre metal drums (blue for component A and black for component B).

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