



# MAXFLEX 309

## TECHNICAL DATA SHEET

MAXFLEX 309 is a two-component polyurethane flexible molded foam system using water as the blowing agent. MAXFLEX 309 can be used for furniture foam cushioning or other molded parts. As with any products, usage of MAXFLEX 309 in any given application must be tested in advance by the user to determine the suitability.

LIQUID COMPONENT PROPERTIES*		
	Component-A A-309	Component-B MAXFLEX 309 B
Viscosity at 250C (77° F)	188 cps	1820 cps
Specific Gravity	1.21	1.01
Mixing Ratio by weight (index 100)	36.7	63.3

REACTIVITY PROFILE				
	Cream Time	Gel Time	End of Rise	Density Free Rise
Hand Mix*	16 – 20 seconds	110 – 120 seconds	140 – 150 seconds	48 – 52.8 kg/m <sup>3</sup> (3.0 – 3.3 lb/ft <sup>3</sup> )

\*Handmix at 20°C (68°F) 230 grams of MAXFLEX 309 system.

RECOMMENDED PROCESSION PARAMETERS*	
Mold temperature range (°F)	104 – 131°F (40 – 55°C)
Demold time (minutes)	4 – 8
Molded Density Range (pcf)	4.5 – 6 pcf

TYPICAL PHYSICAL PROPERTIES	
Molded Density	4.5 – 6 pcf
Tensile Strength (100 % Modulus)	N/A
Elongation at break	N/A
IFD (N) at 25 % at 65 % ATSM D 3574	N/A N/A

### Application Guidelines

MAXFLEX can be processed and poured on both high and low pressure equipment. It is essential to have equipment that consistently delivers accurate amounts of both components to the mix head in order to achieve high performance polyurethane.

### Health and Safety

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling MAXFLEX 309 isocyanate and polyol components. Before working with these products, you must read and become familiar with the available information concerning their hazards proper use and handling. This cannot be over-emphasizing. Information is available in several forms, e.g. material safety data sheets and product labels.

## STORAGE AND SHELF LIFE

**Isocyanate Component A** : The chemicals should be stored inside at a temperature range of 15 – 30° C ( 59 – 86° F ). The MDI isocyanate component A is sensitive to moisture. Original container must be kept tightly closed to prevent contamination with moisture and other foreign material. The shelf life is six months from the date of manufacture if stored in closed original containers at 25°C. ( 77° F ).

**Polyol Component B** : Polyols used in this formulation are hygroscopic and containers must be kept closed to prevent absorption of moisture, which can adversely affect processing. Storage should be maintained between 15 – 35°C ( 60 – 95°F ). The shelf life is six months from the date of manufacture if stored in closed original containers at 25°C ( 77°F ).

\*Foam application temperatures and pressures can vary widely depending on temperature, humidity, elevation, substrate, equipment and other factors. While processing, the applicator must continuously observe the characteristics of the foam and adjust processing temperatures and pressures to maintain proper cell structure, adhesion, cohesion and general foam quality. It is the sole responsibility of the applicator to process and apply Maxflex 309 within specification.

## DISCLAIMER :

The information herein is to assist customers in determining whether our products are suitable for their applications. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, express or implied, including any warranty or merchantability or fitness, nor is protection from any law patent inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials. Polyurethane foam is combustible. It is recommend that the user read the material safety data sheets on the liquid chemicals before using the products.