MAXFLEX 312 + Suprasec 7007 is a two-component polyurethane flexible molded foam system specially formulated for parts requiring firmness. This product uses water as the blowing agent. As with any product, usage of MAXFLEX 312 + Suprasec 7007 in any given application must be tested in advance by the user to determine its suitability.

LIQUID COMPONENT PROPERTIES*		
	Component-A Suprasec 7007	Component-B MAXFLEX 312-B
Viscosity at 25^{0}C (77º F)	65 cps	1820-2000 cps
Specific Gravity	1.03	1.03 - 1.05
Mixing Ratio by weight (index 100)	43	100

REACTIVITY PROFILE				
	Cream Time	Gel Time	End of Rise	Density Free Rise
Hand Mix*	15 – 20 seconds	80 – 80 seconds	110 – 120 seconds	56.1 – 64.1 kg/m³ (3.5 – 4.0 lb/ft³)

*Handmix at 20^{0}C (68°F) 143 grams of MAXFLEX 312 + Suprasec 7007 system.

RECOMMENDED PROCESSION PARAMETERS*	
Mold temperature range (°F)	104 – 131°F (40 – 55ºC)
Demold time (minutes)	3– 8
Typical Free Rise Core Density	60.8 kg/m³ (3.8 lb/ft³)

Application Guidelines
MAXFLEX 312 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 Suprasec 7007 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-emphasing. 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 15-30ºC (59-86ºF). 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 15-30ºC (59-86ºF).

Polyol Component B : Polyols used in this formulation are hydroscopic and containers must be kept closed to prevent absorption of moisture, which can adversely affect processing. Storage should be maintained between 15-30ºC (59-86ºF). The shelf life is six months from the date of manufacture if stored in closed original containers at 15-30ºC (59-86ºF).

*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 312 within specification.

DISCLAIMER :

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870, Curé-Boivin
Boisbriand, QC, J7G 2A7
Téléphone: 450 437 0123 (866 437 0223)
Fax : 450 437-2338

3315 E. Division Street
Arlington, TX 76011
Phone (817) 640-4900 Fax (817) 633-2000
www.huntsmanbuildingsolutions.com

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