



GENFLEX™ MC1013 is a fully formulated polyurethane system designed for outdoor recreational activities such as archery targets. The system exhibits rugged self-healing properties for a long life while taking heavy damage and maintaining shape and performance. GENFLEX MC1013 is designed to be processed through low pressure machines and / or hand mix applications.

COMPONENT PHYSICAL PROPERTIES

Property	POLYOL	ISO
Specific Gravity @ 25°C (77°F)	1.09	1.20
Viscosity @ 25°C (77°F)	3,400 cP	550 ± 100 cP

PROCESSING PARAMETERS¹

Component	POLYOL	ISO
Mix Ratio, parts by weight	100	71

TYPICAL REACTION CHARACTERISTICS (LAB HAND MIX)

Components measured by weight and hand mixed at 25°C (77°F) on an electric mixer at ~2,000 rpm. Results should serve as a guideline only.

Test	Result
Cream Time	25–30 seconds
Gel Time	65–75 seconds
Free Rise Density	100–110 kg/m ³ (6.2–6.9 pcf)

TYPICAL PHYSICAL PROPERTIES² (LAB HAND MIX)

Type	Result
Tensile Strength	427 kPa (62 psi)
Tear Strength	2.45 N/mm (14 pli)
Elongation	347%

¹Values shown are nominal and not intended to represent optimum processing conditions, which must be determined for each unique situation.

²Values shown are typical based on laboratory-produced specimens. Actual properties may vary depending on processing conditions and part design.



SAFETY:

When working with any chemicals it is necessary to wear eye protection and gloves. It is necessary to understand hazards involved in handling all components, establish and follow safe work procedures, and comply with all OSHA, DOT, and EPA Regulations. Refer to SDS for specific details. All persons who work with components must know and follow proper safe handling procedures.

SHELF LIFE:

Twelve (12) months from date of manufacture when stored in original, unopened, containers at temperatures between 65–80°F. Consult with FSI before disposal or return if components exceed shelf life.

HANDLING:

As with all chemicals, care should be exercised when handling. Avoid contact with eyes, skin, and clothing. Eye protection and gloves are considered a minimum requirement and should be worn at all times while working with components. Refer to SDS for specific details regarding handling requirements.

STORAGE:

Do not store in direct sunlight. Containers should be stored under cover and protected from contact with rain or snow. Water should not be able to accumulate where it can be drawn into the containers. Ideal storage temperatures are 50°F (10°C) to 75°F (24°C). Keep containers sealed until use. Refer to SDS for further information or contact FSI for assistance.

STEWARDSHIP:

FSI and its subsidiaries are committed to stewardship and have a concern for the health and safety of all individuals who come in contact with its products, as well as the environment. This philosophy is a foundation on which we assess information to appropriately protect individuals and preserve our environment. Success of stewardship rests with each and every individual involved in the cradle to grave life cycle of our products.

CUSTOMER RECOMMENDATIONS:

FSI strongly encourages customers to review their manufacturing, health, safety, and environmental processes and applications while evaluating its products.

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