

DESCRIPTION: Rhino® Flex 300-12-15 is a micro-cellular, polyurethane flexible foam that has excellent rebound, tear resistance and load bearing. It can be used for inner soles and many other applications where repeated loads are applied and removed requiring shock absorption. Rhino Flex can be tailored to the reactivity and density profile to meet your needs.

TYPICAL USES:

- “Soft cushion”, “soft touch” and “soft play” applications
- Utilize in OEM fabrication for shoe inserts

CHEMICAL PROPERTIES*:

	Test	Isocyanate	Resin
Specific Gravity (grams/cc)	ASTM D-792	1.13	1.03
Viscosity, cps @ 77°F		397.5	843
@ 100°F		174	449
Mix Ratio, parts per weight		71.6	100

(Note: Ratio may be varied from 73 to 100 to 65 to 100)

REACTIVITY PROFILE:

	Hand Mix @ 75° F ±2 (29.3° C)	Machine Mix @ 80 – 85° F (26.7 – 29.4° C)
Cream Time, seconds	7 – 10	5
String Time, seconds	17 – 21	14 – 16
Rise Time, seconds		67
Tack Free, seconds	40 – 50	30
Demold		2 min 40 sec

TYPICAL PHYSICAL PROPERTIES:

	Test	Result
Free Rise Core Density, lbs/ft ³	ASTM D-1622	12 ± .2
Shore Hardness Gauge (00)	ASTM D-2240	40 – 45
Tensile Stress, psi (Max Load)	ASTM D-3574E	40 – 45
Tensile Stain, % (Max Load)	ASTM D-3574E	130 – 140
Compression Set, % @ 25% Deflection 50% Deflection	ASTM D-3574D	Initial 2.4 < 1% after 24 hrs

SAFETY PRECAUTIONS: Health Considerations: Consult the Rhino Linings® Safety Data Sheets (SDS)

This chemical system requires the use of proper safety equipment and procedures. Please follow the Rhino Linings® product SDS and Safety Manual for detailed information and handling guidelines.

For Your Protection: The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Rhino Linings Corporation. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Rhino Linings Corporation will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors.

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