

# RAITECH® GUARNISIL® HRA-210

NR - Natural Rubber,  
Abrasive Applications.

## DATA SHEET



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**The rubber with the highest tear resistance.**

GUARNISIL® 210 natural rubber (polyisoprene) is a vulcanized, plant-based polymer designed to offer elite mechanical properties. It excels in high tensile strength, excellent flexibility at low temperatures, and unparalleled resistance to cut and tear propagation. It is the perfect sacrificial material for extending the service life of metallic assets subjected to constant dynamic friction.

### Competitive Advantages:

**Asset Maintenance Savings:** Coating equipment with natural rubber is significantly more economical and faster than replacing steel plates worn down by abrasion.

**High Dynamic Load Capacity:** Withstands ultra-renewable compression and release cycles without generating destructive internal heat (low hysteresis).

**Superior Adhesion:** Adheres exceptionally well to metallic substrates (using industrial adhesives), ensuring durable, monolithic coatings in the field.

### Usage Recommendations:

**Fluids and Environments:** Water (fresh/salt), abrasive muds, weak organic acids, alcohols, and dry mechanical work.

**Critical Limitations (Caution!):** Natural rubber is extremely susceptible to hydrocarbons and sunlight. It deteriorates rapidly in contact with oils, gasoline, and solvents, and cracks severely under direct exposure to ozone and UV rays. Maximum temperature range: 80°C.

## TECHNICAL DATA

Properties:	<b>GUARNISIL® 210</b>	Sheet
Composition:	NR - Natural Rubber, Abrasive Applications.	
Temperature, Max:	176	°F
Temperature, Continuous:	140	°F
Temperature, Min:	-58	°F
Pressure, Max:	--	psi
Density:	71.79	Lb/ft3
Hardness, Shore A:	40-45	
Elongation at break:	460	%
Tensile strength:	284.46	psi
P x T @ 1/16, Psi x °F:	19,980	
P x T @ 1/8, Psi x °F:	16,650	
Availability:	<b>GUARNISIL® 210</b>	Roll
Availability:	39.4" Wide 1/32" / 39.4" / 33ft 1/16" / 39.4" / 33ft 1/8" / 39.4" / 33ft 3/16" / 39.4" / 33ft 1/4" / 39.4" / 33ft	
Notes:	Other sizes available upon request.  *** Thickness tolerance: ±10%. Dimensional tolerance: ±5%	

\*\*\*Maximum Temperature and pressure ratings shouldn't occur simultaneously.

**We can cut the parts for you.**



[www.raitech.mx](http://www.raitech.mx)

All technical information and recommendations given in this document are based on our experience. However, we do not accept any liability. The data and values presented should be reviewed by the user, bearing in mind that sealing success can only be achieved by evaluating all parameters and variables directly on the job site. The parameters in this document are approximate and may influence each other if they occur simultaneously. Contact us for critical applications or where there is any doubt.

Trusted Sealing Solutions.