

RAITECH® GUARNISIL® HRA-220L

DATA SHEET

The right performance ratio.

When operating conditions demand that a gasket withstand high compression without deforming, GUARNISIL® 220L SBR rubber with nylon insert is the material to specify. The fusion of high-quality elastomers with layers of nylon fabric creates a compound that is virtually invincible under mechanical stress.

Extreme Tear Resistance: This is its greatest advantage. If the material is punctured to pass a screw or bolt, the nylon mesh prevents the hole from shifting or tearing due to movement and vibration.

High Pressure Tolerance: In flanges and pipes with high-pressure fluids, ordinary rubber tends to extrude (bulge out the sides or burst). The nylon insert binds the material, keeping it firmly in place (Dimensional Stability).

Zero Unwanted Elongation: Unlike pure rubber, which stretches, the nylon acts as a mechanical brake. The part maintains its exact shape and size under heavy tensile loads.

Applications:

Industrial Diaphragms: For valves, gas regulators, and pneumatic pumps that move up and down thousands of times a day, withstanding fluid pressure.

Packings and Flanges: Secure sealing in water and/or air pipes where pressure would blow out a conventional gasket.

Automotive and Mining Sectors: Mudguards for cargo trucks, skirts for conveyor belts, and cab supports that are subjected to constant impacts from rocks and debris.

Structural Damping: Supports for bridges or heavy machinery where vibration absorption is required while still supporting tons of weight without collapsing.



SBR, Styrene Butadiene + Nylon Insert



Page 1/1

TECHNICAL DATA

Properties:	GUARNISIL® 220L	Sheet
Composition:	SBR, Styrene Butadiene + Nylon Insert	
Flange Face:	FF - Flat Face	
Temperature, Max:	181	°F
Temperature, Continuous:	140	°F
Temperature, Min:	-4	°F
Pressure, Max:	290	psi
Density:	96.76	Lb/ft3
Hardness, Shore A:	70-75	
Elongation at break:	120	%
Tensile strength:	64.0035	psi
P x T @ 1/16, Psi x °F:	19,980	
P x T @ 1/8, Psi x °F:	16,650	
Availability:	GUARNISIL® 220L	Roll
Availability:	48" Wide 1/32" / 48" / 33ft 1/16" / 48" / 33ft 1/8" / 48" / 33ft 3/16" / 48" / 33ft 1/4" / 48" / 33ft	
Notes:	Other sizes available upon request. *** Thickness tolerance: ±10%. Dimensional tolerance: ±5%	

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

Trusted Sealing Solutions.

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.