

RAITECH® GUARNISIL® HRA-285R

**DATA
SHEET**

Our solution for high temperatures.

VMQ - Vinyl Methyl
Silicone, High
Temperatures

Page 1/1

GUARNISIL® 285R red silicone sheet is a high-performance elastomer designed for static sealing applications subjected to severe thermal stress. Unlike carbon-based rubbers, its silicon-oxygen structure provides natural resistance to degradation from continuous heat, oxidation, and UV radiation, maintaining consistent hardness and flexibility throughout its service life.

Competitive Advantages:

Reliability in Thermal Cycling: Prevents heat loss in heating equipment, drastically improving plant energy efficiency and reducing gas or electricity consumption.

Zero Cold Crystallization: Remains soft and conformable in cryogenic or ultra-freezing applications where other rubbers fracture due to brittleness.

Precise Custom Cutting: Its excellent consistency allows for the easy fabrication of strips, frame-type gaskets, or complex geometries.

Usage Recommendations:

Fluids and Environments: Hot air, dry heat, exposure to the elements, ozone, and water.

Critical Limitations (Important!): Silicone has very low tear and friction resistance (do not use in dynamic applications). It swells and deteriorates rapidly upon contact with mineral oils, gasoline, solvents, and high-pressure steam.¹

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



TECHNICAL DATA

Properties:	GUARNISIL® 285R	Sheet
Composition:	VMQ - Vinyl Methyl Silicone, High Temperatures	
Flange Face:	FF - Flat Face	
Temperature, Max:	482	°F
Temperature, Continuous:	446	°F
Temperature, Min:	-58	°F
Pressure, Max:	290	psi
Density:	78.04	Lb/ft3
Hardness, Shore A:	60-65	
Elongation at break:	580	%
Tensile strength:	56.892	psi
P x T @ 1/16, Psi x °F:	19,980	
P x T @ 1/8, Psi x °F:	16,650	
Availability:	GUARNISIL® 285R	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.**

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.