

RAITECH® GUARNISIL® HRA-305

**DATA
SHEET**

CSM - Chlorosulfonated Polyethylene
aggressive chemical applications.

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High chemical resistance.

GUARNISIL® 305 CSM rubber, also known as Hypalon, is a high-performance synthetic elastomer valued worldwide for its exceptional chemical inertness and ozone stability. Its chlorosulfonated molecular structure allows it to operate safely in the presence of severe oxidizing agents that would rapidly degrade neoprene or nitrile. It is the preferred material for ensuring safety in heavy chemical processes.

Competitive Advantages:

Critical Spill Prevention: Ensures the integrity of flanged connections in acid lines, protecting personnel, preventing emergency shutdowns, and avoiding environmental penalties.

Long Service Life in Outdoor Environments: Reduces preventive maintenance costs by eliminating the need to replace gaskets that have crystallized or cracked due to sun and weather.

Color Stability: Its composition does not fade easily, making it useful in applications where color coding or aesthetics are important.

Usage Recommendations:

Compatible Fluids: Strong oxidizing acids (sulfuric, nitric), hydrogen peroxide, sodium hypochlorite, salt water, and ozone.

Temperature Range: Excellent continuous performance up to 120°C (with peaks of 135°C).

Critical Limitations: Not recommended for continuous immersion in aromatic solvents (toluene, xylene), esters, ketones, or chlorinated hydrocarbons.

TECHNICAL DATA

Properties:	GUARNISIL® 305	Sheet
Composition:	CSM - Chlorosulfonated Polyethylene (HYPALON), aggressive chemical applications.	
Flange Face:	FF - Flat Face	
Temperature, Max:	257	°F
Temperature, Continuous:	221	°F
Temperature, Min:	-40	°F
Pressure, Max:	290	psi
Density:	103.01	Lb/ft3
Hardness, Shore A:	60-65	
Elongation at break:	350	%
Tensile strength:	99,561	psi
P x T @ 1/16, Psi x °F:	19,980	
P x T @ 1/8, Psi x °F:	16,650	
Availability:	GUARNISIL® 305	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.

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parts for you.**



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