

Product **Nitrile Rubber Sheet (NBR), NIS-SS**

1. DIMENSIONS AND APPEARANCE

Thickness	in	1/32 - 2
Length	ft	5 - 300
Width	in	2 - 72
Surface finishing		Smooth finish, both sides
Color		Black

2. PHYSICAL PROPERTIES

Hardness	Shore A	50 ± 5	60 ± 5	70 ± 5	80 ± 5	ASTM D2240
Tensile strength	psi (MPa)	642 (4.4)	642 (4.4)	725 (5.0)	642 (4.4)	ASTM D412
Elongation	%	300	300	300	250	ASTM D412
Heat resistance (100°C, 70h)						
Change in hardness, max	Shore A	±15	±15	±15	±15	ASTM D573/2240
Change in tensile, max	%	±30	±30	±30	±30	ASTM D573/412
Change in elongation, max	%	-50	-50	-50	-50	ASTM D573/412
Oil immersion (#3, 100°C, 70h)*	vol%	≤ 90	≤ 90	≤ 60	≤ 60	ASTM D471
Compression set (70°C, 22h), max	%	40	40	30	30	ASTM D395B
Working temp range	°F	-30 to 190	-30 to 190	-30 to 190	-30 to 190	

*Note: This product is not recommended for applications with exposure to diesel or related fuels.

3. TOLERANCES

THICKNESS, in (mm)	MIN, mm	MAX, mm
1/32 (0.8)	0.54	1.05
1/16 (1.6)	1.21	1.97
3/32 (2.4)	2.00	2.76
1/8 (3.2)	2.79	3.56
3/16 (4.8)	3.95	5.58
1/4 (6.4)	5.54	7.16

THICKNESS, in (mm)	MIN, mm	MAX, mm
3/8 (9.5)	8.71	10.34
1/2 (12.7)	11.51	13.89
5/8 (15.9)	14.4	17.48
3/4 (19.1)	16.69	21.41
1 (25.4)	22.86	27.94

WIDTH TOLERANCE, in
-0/+1 for all thicknesses