



# HNBR 965 Sealing Solutions

Compound No./Material Name: <b>HNBR 965</b>	Rubber Classification (ASTM D1418) : <b>HNBR</b>	Service Temperature Range: <b>-27°F to 350°F (-33°C to 177°C)</b>	Color: <b>Black</b>
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Description (ASTM Standard)	Typical
<b>Original Properties</b>	
Specific Gravity (D792)	1.18
Hardness, Type A, Points (D2240)	75
Hardness, Type M, Points (D2240)	78
Tensile Strength @ Break, psi [MPa] (D1414)	3,680 [25.4]
Elongation, % (D1414)	244
Modulus @ 100% Elongation, psi [MPa] (D1414)	1,000 [6.9]
Modulus @ 50% Elongation, psi [MPa] (D1414)	420 [2.9]
Tear Strength, lb/in [kN/m] (D624, Method B)	275 [48.2]
TR-10/50, °F [°C] (D1329)	-15 [-26]
Coefficient of Linear Thermal Expansion, 10 <sup>-5</sup> in./in -°F [cm/cm-°C] (E228)	8.1 [14.6]
<b>Coefficient of Friction, (D1894, Method C)</b>	
Static	1.0
Kinetic	0.2
<b>Compression Set @ 25% Deflection</b>	
70 Hours @ 275°F [135°C], in Air, % of Original Deflection (D395, Method B)	34

Note: Unless otherwise noted, all tests performed on -214 o-rings.

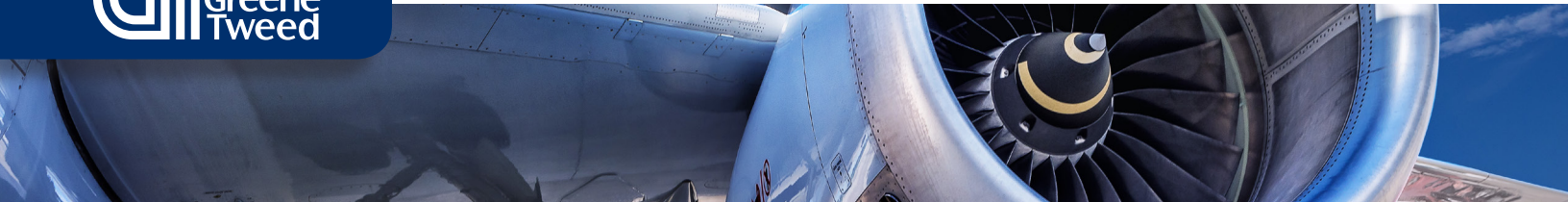
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Description (ASTM Standard)		Typical
<b>Fluid Aging</b>		
70 Hours @ 275°F [135°C] in MIL-PRF-5606	Hardness Change, Points (D471)	-2
	Tensile Change, % (D471)	-17
	Elongation Change, % (D471)	+2
	Volume Change, % (D471)	+14
70 Hours @ 275°F [135°C] in MIL-PRF-83282	Hardness Change, Points (D471)	0
	Tensile Change, % (D471)	-4.5
	Elongation Change, % (D471)	+6
	Volume Change, % (D471)	+5.5
<b>Compression Set @ 25% Deflection</b>		
70 Hours @ 275°F [135°C], in Air, % of Original Deflection (D395)		34
70 Hours @ 275°F [135°C], in MIL-PRF-5606, % of Original Deflection (D395)		13
70 Hours @ 275°F [135°C], in MIL-PRF-83282, % of Original Deflection (D395)		15

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