



# TYPICAL PROPERTIES

Reference Document No. TP-505

<b>Material Name:</b> CHEMRAZ® 505	<b>Rubber Classification:</b> FFKM	<b>Service Temperature Range:</b> -30°C to 230°C (-22°F to 446°F)	<b>Color:</b> BLACK
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DESCRIPTION	TYPICAL
<b>Original Properties</b>	
Specific Gravity (D297)	1.93
Hardness, Shore A, Points (D2240)	75
Tensile Strength, p.s.i. (D1414)	1750
Elongation, % (D1414)	140
Modulus @ 50% Elongation, p.s.i. (D1414)	450
Modulus @ 100% Elongation, p.s.i. (D1414)	1150
<b>Fluid Aging</b>	
70 Hrs. @ 347°F, In Stauffer 7700	
Hardness Change, Points (D471)	+2
Tensile Change, % (D471)	-2
Elongation Change, % (D471)	-2.8
Volume Change, % (D471)	+1
70 Hrs. @ Room Temperature, In ASTM Reference Fuel B	
Hardness Change, Points (D471)	+1
Tensile Change, % (D471)	-16
Elongation Change, % (D471)	-11
Volume Change, % (D471)	+1.9
70 Hrs. @ 250°F, In Distilled Water	
Hardness Change, Points (D471)	-4
Tensile Change, % (D471)	-11
Elongation Change, % (D471)	-3.5
Volume Change, % (D471)	+1.45
70 Hrs. @ 250°F, In Steam	
Hardness Change, Points (D471)	-4
Tensile Change, % (D471)	-8
Elongation Change, % (D471)	-8
Volume Change, % (D471)	+1.2
<b>Compression Set @ 25% Deflection</b>	
70 Hrs. @ 400°F, In Air, % Of Original Deflection (D395)	25
1000 Hrs. @ 300°F, In Air, % Of Original Deflection (D395)	41
1000 Hrs. @ 300°F, In Air (4 More Hr. PC @ 300°F), % Of Original Deflection (D395)	26

**Note**

Specification: AMS 7257 Except Temperature Limit.  
Unless otherwise noted, all tests performed on 214 O-Rings.

**Contact Us**

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