

## Material Specification

ISC-Simrit Material Name: **75 Simriz 485, 75 Simriz 487, Competitive FFKM**

Perfluoro Comparison: AS214 O-Rings

Effective: 18-Aug-99

Original Properties	75 Simriz 485	75 Simriz 487	FFKM
Hardness, Shore A	76	79	75
<b>Compression Set</b>			
70 hrs 200C	25	32	27
70 hrs 250C	48	33	46
<b>Low Temperature</b>			
DSC Tg, C	-5C	-1C	-4C
<b>Steam (168 hrs. @ 200°C)</b>			
Hardness Change, points	-7	-2	-13
Weight Change, %	+5.3	0	+1.5
<b>95% Sulphuric Acid (70 hrs. @ 80°C)</b>			
Hardness Change, points	-3	0	-2
Weight Change, %	+0.1	0	+0.3
<b>Hexamethylenediamine (70 hrs. @ 80°C)</b>			
Hardness Change, points	-5	-1	-3
Weight Change, %	+3.1	+6.5	+5.0
<b>70% Monoethanolamine 30% Dimethyl Sulfoxide (70 hrs. @ 80°C)</b>			
Hardness Change, points	0	-3	-4
Weight Change, %	+0.9	+3.5	+2.1
<b>Methyl Ethyl Ketone (70 hrs. @ 80°C)</b>			
Hardness Change, points	-2	-4	-5
Weight Change, %	+1.5	+1.6	+1.8
<b>Methyl Alcohol (70 hrs. @ 80°C)</b>			
Hardness Change, points	0	0	-4
Weight Change, %	+1.5	+1.6	+1.8

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