

Test data provided by raw material manufacturer or an ISO 17025 registered 3rd party lab.  
Original test data is stored in the Darcoïd Compound Database



6/14/2022

Darcoïd Compound: 4037

## COMPOUND DATA SHEET

### FKM 90±5 Shore A

Service Temperature: -5°F to +400°F

ORIGINAL PROPERTIES	TYPICAL RESULT
Hardness, Shore A	88
Modulus @ 100% Elongation, psi	1440
Ultimate Tensile, psi	2145
Ultimate Elongation, %	146
Compression Set 70hr @ 302°F, %	12.2
Glass Transition Temperature by DSC, °F	+5
Specific Gravity	1.83

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## Compound 4037

### Test Results

Media	Hardness Change, Pnts.	100% Modulus Change, %	Ultimate Tensile Change, %	Elongation Change, %	Weight Change, %	Volume Change, %
<b>Original</b>	88	1435 psi	1773 psi	131%	-	-
<b>Fuel A</b>	-1	-7	-3	-6	0	+1
Final Value	87	1334	1713	130		
<b>Fuel B</b>	0	-10	-8	+2	+1	+2
Final Value	88	1292	1627	134		
<b>Fuel C</b>	-1	-6	-19	-11	+2	+3
Final Value	87	1343	1436	117		
<b>Methanol</b>	-18		-52	-34	+19	+45
Final Value	70		859	87		
<b>JA Jet Fuel</b>	+1	-9	-9	+8	0	+1
Final Value	89	1299	1755	142		
<b>ASTM #1 Oil</b>	0	-14	-12	-1	0	+1
Final Value	88	1241	1569	130		
<b>IRM 903</b>	0	-15	-5	+11	+1	+1
Final Value	88	1216	1689	146		
<b>MIL-H-5606</b>	-1	-14	-15	+3	+1	+2
Final Value	87	1239	1510	135		
<b>Jet Oil II</b>	-3	-5	-7	-1	+4	+8
Final Value	85	1358	1653	130		
<b>Stauffer 7700</b>	-3	-4	-4	-1	+5	+9
Final Value	85	1373	1709	130		
<b>Rando HD32</b>	+2	-3	-7	-7	0	+1
Final Value	90	1395	1652	122		
<b>Rapeseed Oil</b>	0	-11	-8	-1	0	+1
Final Value	88	1280	1629	130		
<b>Ethylene Glycol 97%</b>	-2	-20	-20	+11	+1	+2
Final Value	86	1142	1410	145		
<b>Distilled Water</b>	+2	-10	-10	+4	+2	+3
Final Value	90	1290	1599	136		
<b>Oven Air Age</b>	-1	+2	+6	-2	0	0
Final Value	87	1457	1874	128		

 70 Hrs @ Room Temperature

 168 Hrs @ 100° C

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