

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



6/13/2019

Darcoid Compound: 1045

COMPOUND DATA SHEET

Molythane, 90±5 Shore A
Temperature Range: -65° to +200°F

This compound will meet or exceed the specifications listed and has the following physical properties:

ORIGINAL PROPERTIES	TESTING RESULTS
Hardness, Shore A	95
Modulus, 100% Elongation, psi	1755
Modulus, 300% Elongation, psi	3653
Tensile Strength, psi	8134
Ultimate Elongation, %	565
Specific Gravity	1.20
Rebound, %	34
Compression Set 70 hrs @ 158°F, %	30.8

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Compound 1045

Test Results

Media	Hardness Change, Pnts.	100% Modulus Change, %	Ultimate Tensile Change, %	Elongation Change, %	Weight Change, %	Volume Change, %
Original	96	1843	7596	526	-	-
Fuel A	-1	-4	+12	+3	+1	+1
Final Value	95	1774	8523	541		
Fuel B	-3	-24	-20	-5	+9	+12
Final Value	93	1405	6105	502		
Fuel C	-3	-27	-28	-7	+13	+18
Final Value	93	1341	5482	491		
Methanol	-5	-41	-42	-4	+9	+13
Final Value	91	1083	4425	503		
JP-4 Jet Fuel	-1	-14	+2	-5	+3	+4
Final Value	95	1581	7718	501		
JA Jet Fuel	-1	-11	+8	-3	+2	+2
Final Value	95	1641	8187	510		
ASTM #1 Oil	-1	-9	+22	+23	0	0
Final Value	95	1686	9302	647		
IRM 903	-1	-12	+15	+21	+6	+7
Final Value	95	1623	8747	637		
MIL-H-5606	-1	-13	+2	+15	+4	+6
Final Value	95	1597	7715	605		
Jet Oil II	-1	-10	+9	+8	+8	+9
Final Value	95	1661	8250	570		
Stauffer 7700	-2	-14	+4	+14	+7	+8
Final Value	94	1590	7879	600		
Rando HD32	-1	-5	+24	+10	+1	+1
Final Value	95	1759	9404	579		
Rapeseed Oil	-1	-10	+3	+31	+1	+1
Final Value	95	1663	7791	689		
Distilled Water	-2	-29	-31	+52	+1	+2
Final Value	94	1310	5248	799		
Oven Air Age	-1	-5	+21	+17	0	0
Final Value	95	1750	9182	616		
Ethylene Glycol	-4	-32	-28	+59	+5	+6
Final Value	92	1255	5450	834		

 70 Hrs @ Room Temperature

 168 Hrs @ 100° C

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