



SHORT REPORT of BRAKE HOSE TESTING

Nº	TEST	pieces	SAE J 1401 - STANDARD REQUIREMENTS			Result			
1	Visual Inspection	All	Without any damage			No damage			
2	Pressure Test	All	Air pressure 10,3-14,5 MPa keep up for 10-25 sec			OK			
3	Constriction Test	All	Insert constriction gage, and drop within 5 s			OK			
4	Volumetric Expansion + Burst Strength	4	Pressure	HR cm ³ /m	HL cm ³ /m	I	II	III	IV
			6,9 MPa	2,17	1,08	0,321	0,256	0,256	0,321
			10,3 MPa	2,59	1,38	0,449	0,449	0,449	0,577
			20,0 MPa	4,00	2,00	1,282	1,282	1,346	1,410
			Burst strength ≥ 49 MPa			76	74	77	79
5	Brake Fluid Compatibility	4	Constriction ≥ Gage Ø 2,03x76 weight 57g			OK	OK	OK	OK
			Burst test ≥ 34,5 MPa			82	83	81	83
6	Whip Test	4	≥ 35 h, at 1,55-1,72 MPa and 800±10 rpm - no leakage			OK			
7	Tensile Test	4	≥ 1446 N, 25±3 mm/min			2920	3020	2990	2960
8	Cold Bend Test	1	-45≡-48°C for 70-72 h bend 180° in 3-5 sec - no cracks (without magnification)			No cracks			
9	Static Ozone Test	1	100±5 pphm of ozone at 40±3°C for 70-72 h - no cracks under 7-power magnification			No cracks			
10	Water Absorption Test	4	Tensile test ≥ 1446 N		After immersion in water	2960	2980	2990	2980
		4	Whip test ≥ 35 h at 1,55-1,72 MPa			OK			
		4	Burst strength ≥ 34,5 MPa		70-72 h at 85°C	82	84	83	83
11	Hot Impulse Test + Burst Strength	4	150 cycles (0 MPax1min / 11 MPax1 min) at 146±3°C - no leakage			OK	OK	OK	OK
			Burst strength ≥ 34,5 MPa			79	82	80	81
12	Dynamic Ozone Test	4	First 27±6°C, then 100±10 pphm of ozone at 40±3°C - no cracks after test min 48 h			No cracks	No cracks	No cracks	No cracks