

Test Report for silicone air charge cooler hose

Testing sample information		
Name	Charge air cooler hose	
Length:	1 meter	
Weight:	2.5 KGS	
Raw Material:	Silicone	
Test Data		
Items	Technical requirements	Result
Outside surface	No stripping	Yes
	No impurities, no bubble	Yes
	No oil stains	Yes
	Inner ply do not have bubble or holes	Yes
Hardness	70+/-5 Shore A	72 shore A
Tensile Strength	7 MPA min	7.8 MPA
Elongation	250% min	330%
Change in hot air 110 C x 72 hours	Harndess change +/- 15	+3
	Tensile Strength +/-25%	+4%
	Elongation +10% ~ -30%	-14%
Break Temperature	no break in -40 C	Yes
OZ resistant, 40 C x 70 hour, OZ 50 * 10(-8)	No break	Yes
Break Pressure	1 MPA min	1.5 MPA
OD change rate, test	15% max	6%
Adhesive strength	1.2 kN/m min	1.6 kN/m
Coolant liquid resistant 100 C x 72 hour	Harndess change +/- 5	+3 Shore A
	Tensile Strength +/-15%	/+4%
	Elongation +/-30%	-16%
	Volume +/-5	/+2

* The above data is test in Guanshan Lab and with third part lab. The future updating will not notify seperately.

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