

Laboratory Test Report n. 563/26

Subject: data center hoses, compounds characteristics

HOSE TYPE: 313AA-959AA-959AE-959AH

Compound	Property	Unit	Standard method	Limits
Lining	Tensile Strength	MPa	ISO 37	>6
	Elongation at break	%	ISO 37	>500
	Hardness	ShA	ISO 37	62-70
Cover Black Blue Red	Tensile Strength	MPa	ISO 37	>4
	Elongation at break	%	ISO 37	>500
	Hardness	ShA	ISO 37	66-76
	Ozone resistance 100 pphm/70h/40°C 30%(10X)		ISO 7326	Pass

Compound	Property	Unit	Standard method	Test fluid	Test conditions	Limits
Lining	Change in Tensile Strength	%	EN ISO 6134	Air	168h 150°C	-20% - 20%
	Change in elongation at break	%	EN ISO 6134		168h 150°C	-40% - 40%
	Change in Hardness	%	EN ISO 6134		168h 150°C	0 - 10

Compound	Property	Unit	Standard method	Test fluid	Test conditions	Limits	Typical Test results
Lining	Swelling	%	ISO 1817	Aging propylene glycole 25% - water 75%	72h 40°C	0 - 15%	0,7%
		%	ISO 1817		72h 70°C	0 - 15%	1,5%
		%	ISO 1817		168h 40°C	0 - 15%	0,5%
		%	ISO 1817		168 70°C	0 - 15%	2,2%
	Change in hardness	pts	ISO 1817		72h 40°C	0 - 10	0
		pts	ISO 1817		72h 70°C	0 - 10	0
		pts	ISO 1817		168h 40°C	0 - 10	0
		pts	ISO 1817		168 70°C	0 - 10	0

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www.alfagomma.com e-mail: info@alfagomma.it

Subject: Burning behavior of 959 and 313 black cover compound according to UL 94 V-0

Test sample: according to UL 94 § 8.3	125±5 mm long 13,0 ±5mm wide 1,4mm thick
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Sample	Black cover compound (689A-01) min thickness			
Test	Units	Values	Test method	Requirements
Flammability test				UL 94-V0
• After flame time for each individual specimen t1 or t2	s	6	Standard UL 94	≤10
• Total After flame time (t1 for the five specimens)	s	2		≤50
• After flame plus Afterglow time for each individual specimen after the second flame application (t2 + t3)	s	6		≤30
• After flame or Afterglow of any specimen up to the holding clamp		No		No
• Cotton indicator ignited by flaming particles of drops		No		No

Laboratory condition: Original (23 ± 2 °C, H.R. 50 ± 10 %)

Remark: The black cover compound of 959 and 313 is in compliance with the requirements of the UL 94-V0.

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Subject: Burning behavior of 959 and 313 blue cover compound according to UL 94 V-0

Test sample:
according to UL 94 § 8.3

125±5 mm long 13,0 ±5mm wide 1,4mm thick

Sample	Blue cover compound (682E-04) min thickness			
Test	Units	Values	Test method	Requirements
Flammability test				UL 94-V0
• After flame time for each individual specimen t1 or t2	s	5	Standard UL 94	≤10
• Total After flame time (t1 for the five specimens)	s	1		≤50
• After flame plus Afterglow time for each individual specimen after the second flame application (t2 + t3)	s	5		≤30
• After flame or Afterglow of any specimen up to the holding clamp		No		No
• Cotton indicator ignited by flaming particles or drops		No		No

Laboratory condition: Original (23 ± 2 °C, H.R. 50 ± 10 %)

Remark: The blue cover compound of 959AE is in compliance with the requirements of the UL 94-V0.

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Subject: Burning behavior of 959 and 313 Red cover compound according to UL 94 V-0

Test sample:
according to UL 94 § 8.3

125±5 mm long 13,0 ±5mm wide 1,4mm thick

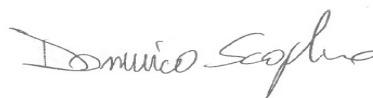
Sample	Red cover compound (684H-04) min thickness			
Test	Units	Values	Test method	Requirements
Flammability test				UL 94-V0
• After flame time for each individual specimen t1 or t2	s	4	Standard UL 94	≤10
• Total After flame time (t1 for the five specimens)	s	0		≤50
• After flame plus Afterglow time for each individual specimen after the second flame application (t2 + t3)	s	4		≤30
• After flame or Afterglow of any specimen up to the holding clamp		No		No
• Cotton indicator ignited by flaming particles or drops		No		No

Laboratory condition: Original (23 ± 2 °C, H.R. 50 ± 10 %)

Remark: The red cover compound of 959 and 313 is in compliance with the requirements of the UL 94-V0.

Teramo, 07/09/2026

Compounding Technical Manager



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