

Avon

AcoustaFlex™ SERIES

High-performance molded rubber air ducts

High-performance molded rubber air ducts



Discover the advantages

- Superior sound attenuation
- Flexibility
 - In installation
 - Engine Roll
- Lower tooling cost
- Quicker turnaround time
- Durability
- Sealability
- Fewer components; easier to add and remove
- Prototype tooling out of steel capable of producing multiple runs; prototype parts made of production material and components

A Full-service Solution

- Engineering
- Design
- In-house testing to ensure quality and performance
- Service and support available anytime, anywhere



Built in Flexibility...

Unsurpassed Performance

AcoustaFlex air ducts from Avon Automotive offer OEMs a unique combination of flexibility and reliability, plus highly competitive tooling costs and quick prototype turnaround time. The molded rubber interfaces with the various parts of the induction system, absorbing energy and dampening vibration. This helps remove noise which is important to vehicle designers as consumers equate quiet to quality.

Pliable for easy installation and engine roll compensation, AcoustaFlex air ducts are available in a variety of material options. Materials like ECO, EPDM and low-swell EPDM. No matter what material you choose, though, you can always count on sealability, durability and high heat resistance even under the most extreme operating conditions. Plus, you can easily and cost-effectively adapt them to include your own customized features such as cable retainers, sensor ports, connector ports and resonators.

And, Avon Automotive has the resources and experience to handle your entire air duct job from engineering, design and material requirements to testing and production. So you can concentrate on the design of the entire system.

At your service...globally

More than just a supplier of world-class components, Avon Automotive has established local relationships around the world supported by engineering, sales and product development centers. These facilities work closely with OEMs to offer comprehensive design, build and test services. The result is your assurance of consistent quality and supply.

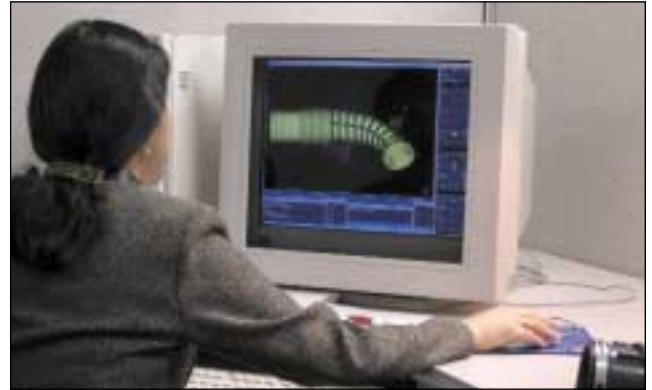


There are distinct advantages to the flexibility you get with Avon's AcoustaFlex air ducts. However, it's only one consideration. As you look for the right partner to supply your air ducts, consider our long history of delivering quality solutions and full-service capabilities.



Engineering Support

- Full CAD design support through our offices or on-site at your facility
- Licenses in IDEAS, CATIA, Unigraphics and AutoCAD
- Information transfer from your facility to ours via Metaphase, AFX, Data-X



Design Validation

- Design center located in Farmington Hills, MI
- Product Development Center and accredited A2LA lab in Cadillac, MI
- Optical measurement capability
- Environmental chamber tests capable of -40° to 250° C for product verification and durability testing
- In-process checks
 - Vacuum collapse
 - Insertion/pull-off
 - Leak test



Material Option Guidelines

Material	Process	Ozone	Max. Temps		Fuel	Oil	Applications
			Cont	Peak			
ECO	Injection/transfer	Excellent	115 C°	150 C°	Excellent	Excellent	Air Ducts, Cuffs, Connectors
EPDM	Injection/transfer	Excellent	125 C°	150 C°	Poor	Poor	Air Ducts, Cuffs, Connectors, Grommets
Low-Swell EPDM	Injection	Excellent	125 C°	140 C°	Good	Good	Air Ducts
CPE	Injection/transfer	Fair	100 C°	125 C°	Good	Poor	Connectors, Grommets
NBR	Injection/transfer	Poor	120 C°	150 C°	Good	Excellent	Connectors, Grommets
NBR/PVC	Injection	Good	90 C°	110 C°	Excellent	Excellent	Cuffs
HNBR	Injection	Excellent	150 C°	175 C°	Excellent	Excellent	Connectors, Grommets
FKM	Injection	Excellent	205 C°	260 C°	Excellent	Excellent	Connectors, Grommets
Silicone	Injection	Excellent	300 C°	315 C°	Poor	Poor	Air Ducts



Contact Avon Automotive for complete technical information on AcostaFlex molded rubber air ducts.

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