

Over-molded Filters

Maximize filter capability,
extend product life



Over-molded technology maximizes your potential

The Integrated Sealing Systems Division's over-molded technology maximizes filter potential and increases product life by sealing the outer edge of the filter membrane from harmful debris

Over-molded rubber or plastic onto felt, industrial fabrics or metal screening can be customized to meet today's system environments.

Our over-molding technology prevents system blow-by and eases installation providing a premium filter seal that will lower warranty costs and extend system life. We can use your current filter or help you design one to meet your system needs.

Kitting and assembly services are available for aftermarket and line production needs.



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Product Features:

- Custom shapes, sizes and cross sections to meet application requirements
- Single or multiple molded materials available.
- Variety of filter media available.

Benefits:

- Ease of installation
- Adaptable to any system configuration.
- Long life in aggressive environments.
- Can be shipped as part of an assembly

ENGINEERING YOUR SUCCESS.

Polyester felt or industrial fabrics are available in a broad range of styles to fit virtually any filter application today. They can be over-molded with a polymer or plastic edge as well as a plastic edge with a polymer seal over-molded onto it.

Metal screens can also be over-molded with a polymer or plastic edge to provide coarse or fine filter capabilities. A variety of over-molded materials can be selected to optimize your system needs. The charts below provide

compatibility and some basic material characteristics. Contact your sales representative for further details and material options available.

Polymer Material Selection and Compatibility Chart					
	Polyacrylate (ACM)	Ethylene Acrylic (AEM)	Hydrogenated Nitrile (HNBR)	Silicone (VMQ)	Fluorocarbon (FKM)
Compatible Fluids	ATF Petroleum Oils	ATF Petroleum Oils	Petroleum Fluids Water/Steam to 300°F Ethylene Glycol	High Temperature Dry Heat Low Temperature High Analine Point Oils	Petroleum Fluids Aromatic Hydrocarbons Fuel
Non-Compatible Fluids	Steam Brake Fluids Acids	Fuels Brake Fluids	Phosphate Esters Brake Fluids Strong Acids MeOH/EtOH Blends	Water/Steam > 250°F Acids and Alkalis Hydrocarbon Duels Aromatic Hydrocarbons	Brake Fluids Low Molecular Weight Acids Amines Steam

Additional elastomer types are available to custom fit your needs.

Our four standard plastic retainer materials are listed in the table below, along with compatibility information for select media. Our experienced engineers can work

with you to specify the most effective and cost efficient material for your application.

Material Type	ASTM Designation	Common Trade Names	Maximum Continuous Use Temperature	Burn Rate	Motor Oil	Brake Fluid	ATF	Gasoline	Methanol	Ethanol	Engine Coolant @125°C	Water to 100°C	Steam to 150°C	Ozone
Polyamide 6/6	PA66	Zytel® Ultrad® Minlon®	150°C	slow to heavy burning	A	A	A	A	C	B	C	B	C	B
Polyphthalamide	PPA	Zytel HTN® Amodel®	175° C	heavy burning	A	A	A	A	B	B	B	B	B	B
Polyphenylene Sufide	PPS	Ryton® Cetex®	250°C	self-extinguising to non-burning	A	A	A	A	A	A	A	A	A	B
Polytetrafluoroethelene	PTFE	Teflon® Algoflon®	260°C	non-burning	A	A	A	A	A	A	A	A	A	A

A = Recommended, B = Satisfactory, C= Not Recommended

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