



Dow Hyperlast

engineering polyurethane excellence

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HYPERLAST™
in Filtration



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Polyurethanes for air and liquid filters

- Effective sealants and adhesives
- Resists solvents, fuel, oils, greases and salts
- It will perform consistently over a wide temperature range
- It can be used as a flexible or rigid elastomer, foam or adhesive
- It can be coloured to any specification

Dow Hyperlast has led the development and supply of polyurethanes to the filter industry for over 30 years, keeping inline and ahead of the increasingly stringent demands of this market.



HYPERLAST™ elastomers and foams for air and liquid filtration are extremely versatile. There are no restrictions on shape and so the polyurethane can fit in awkward situations and difficult environments and the materials have exceptional tear resistance properties.

Processing costs are reduced as these materials do not require high-temperatures for moulding and curing and the simple machinery needed for processing polyurethane is comparatively inexpensive.



HYPERLAST™ polyurethanes are used as adhesives and sealants in filters to adhere the element (usually pleated paper) to the housing - the better the seal, the more efficient the filter. Also, HYPERLAST™ can be used to form the housing. These efficient sealants find their way into many applications including dry cleaning, automotive, vacuum cleaners, pollen filters and high efficiency particulate filters (HEPF) for clean room, high tech and medical applications.

Polyurethanes for air and liquid filters

Materials and applications

Application		Properties	HYPERLAST™
Air filtration	Respirator cartridges	50°A Hardness Range of gel times	2851201
	Foam automotive panel filter	Filled Foam 10°A Hardness Soft PU foam	2873206
		Filled foam 25°A hardness	2873200
		Unfilled foam 15°A hardness	7852234
		Unfilled foam High tear strength 25°A hardness Range of colours	7852217
	Seals for absolute filters	50°A filled elastomer Range of gel times	2851011
		Chemically thixotropic 65°A hardness	2851110
	Soft moulded end seals for air filters	45°A hardness filled elastomer Harder grades available	2851104
Heavy duty air filter end seals	Good tear resistance Room temperature cure High temperature resistance 60°A hardness	2851316 7850859	
Bonding paper cartridges to Zintec air filter end caps	60°A hardness Semi flexible foamed PU	2873003	
Adhesive for metal end caps of diesel fuel filters	Semi rigid PU 75°D hardness Good oil and fuel resistance	2874.008	
Liquid filtration	Adhesive-coated metal end caps - fuel & oil filters	Good oil and fuel resistance Rigid 86°D polyurethane	2874701
	Moulded end caps for dry cleaning filters	Exceptional solvent resistance 88°D rigid polyurethane	2874207
	Semi rigid end caps adhesive in oil and water separators	Good oil resistance Semi-rigid polyurethane 70°D hardness	2874013