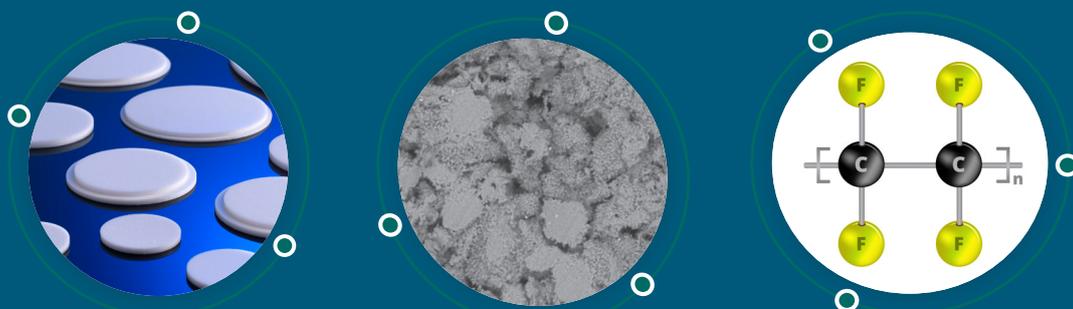




Vyon® PTFE

Porous Polytetrafluoroethylene



PTFE (Polytetrafluoroethylene) is a versatile, high performance fluoropolymer composed of carbon and fluorine atoms. Our expertise in sintering porous plastics enables us to produce high quality, PFOA/PFAS-free, sintered Vyon® PTFE with consistent pore size and permeability with no compromise on performance.

The carbon-fluorine bond is known as 'one of the strongest bonds in organic chemistry' (dissociation energy: 460 KJ/mol) and as a result, gives PTFE exceptionally high chemical and thermal resistance. Although PTFE is commonly associated with non-stick applications in the food industry, PTFE is widely used the life science, medical and pharmaceutical applications for its hydrophobic properties, flexibility and thermal resistance.



Properties of Vyon® PTFE



Hydrophobic



High Chemical Resistance



Excellent Thermal Resistance



Mechanical Flexibility

Vyon® PTFE Grades

Grade	Material	Typical Mean Pore Size (um)	Operating Temperature (0C)	Available Thickness (mm)
Vyon® PTFE10	Sintered PTFE	10	-60 - +260	1.0, 1.5, 2.0
Vyon® PTFE20	Sintered PTFE	20	-60 - +260	1.0, 1.5, 2.0



Can't Find What You're Looking For?

We can make it. Together with our expertise and your requirements, work with us to create a product you truly need.

Chemical Compatibility Chart

	Polymer Type		
	PTFE	PP	HDPE/UHMWPE
Acids	***	***	***
Bases	***	**	**
Oil	***	**	**
Non-polar Aliphatic Solvent	***	**	**
Aromatic Solvent	***	*	*
Halogenated Solvent	***	*	*
Oxidising Agent	***	*	*

*** Highly compatible, ** Fair compatibility, * Poor Compatibility

Regulatory Approvals

- PFOA/PFAS-free: Compliant with (EU)10/2011, FDA, (EC)1935/2004 and (EC)2023/2006
- USP Class VI
- Water Safety: Compliant with W270 (11/2007) of the DVGW for the use in the drinking water sector
- EU and FDA approved: Compliant with (EU)10/2011, FDA, (EC)1935/2004 and (EC)2023/2006

Precision Engineering

- Tight tolerances
- Controlled pore size range
- Bespoke configurations and specifications

Quality Assurance

Our high expectation for quality, coupled with our commitment to continuous improvement, assures you that our raw materials are carefully selected, and our manufacturing processes are optimally controlled to cGMP standards. Porvair Sciences are an open company who regularly partake in audits and are ISO9001 certified.



Partnerships for Life

Combining your product with the right technology is achieved by understanding not only the requirements but the application and performance needs. All projects are assigned a key contact and team who will work closely with your company up to the point of completion. Our team is flexible in their approach enabling us to collaborate and ensure a successful project completion.

Experts You Can Trust

We have a dedicated team of scientists, engineers, production and quality professionals working towards the best possible filtration solutions for our customers. We have a fully equipped test house and laboratory, and our experienced design engineers use the latest AutoCAD® technology, with 3D solid modelling, integrated with a finite element analysis system to give full structural assurance capability.



porvair
sciences

Vyon®
Porous Plastics

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