



WHAT ARE PFAS?

PFAS are per- or poly-fluoroalkyl substances that have a least one fully fluorinated carbon atom.

Over the past decades, global manufacturers have started to replace certain PFAS with other PFAS or with fluorine-free substances. This trend has been driven by the fact that scientists and governments around the world first recognised the harmful effects of some PFAS (particularly long-chain PFAS) on human health and the environment. As the focus shifted to other PFAS, these have also been found to have properties of concern.

What are the concerns?

Their release and mobility in water and air causes contamination of groundwater and drinking water.



Some PFAS are toxic for reproduction and



Can harm the unborn child



Several may cause cancer



Some are suspected of interfering with the human hormonal system



<https://echa.europa.eu/hot-topics/perfluoroalkyl-chemicals-pfas>

Health Effects Associated with PFAS

- Increases in cholesterol levels
- Small decreases in birth weight (<0.7-ounce decrease per 1 ng/ml blood PFOA/PFOS increase)
- Lower antibody response to vaccines
- Kidney and testicular cancer
- Pregnancy-induced hypertension or preeclampsia
- Changes in liver enzymes
- **Additional Health Considered**
- Thyroid disease and dysfunction
- Breast cancer
- Ulcerative colitis

<https://www.atsdr.cdc.gov/pfas/resources/pfas-information-for-clinicians.html>

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BREAKING NEWS ON PFAS

First, Kyodo News reported high PFAS levels in the blood of Tokyo residents. Then, a class-action lawsuit was filed against a major U.S. beverage company for allegedly contaminating their juice with PFAS at levels hundreds of times above federal drinking water limits.

ENVIRONMENT - POLLUTION

California accuses 3M, Dupont and 16 other companies of covering up emissions of 'forever chemicals'

BY THE ASSOCIATED PRESS
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California Attorney General Rob Bonta speaks at a news conference announcing a lawsuit against manufacturers of toxic chemicals in San Francisco, on Thursday, Nov. 10, 2022.

Potentially harmful chemicals found in Tokyoites' blood



A Tokyo citizens group holds a news conference about detecting high concentrations of potentially harmful substances known as PFAS in some western Tokyo residents' blood in Tokyo on Monday. | KYODO



'All-natural' Simply Tropical juice has high toxic PFAS levels, lawsuit alleges

Coca-Cola claimed juice was healthy despite toxic 'forever chemicals' levels 'hundreds of times' above federal limits, suit says



科学上网 <https://www.theguardian.com/environment/2023/jan/19/simply-orange-juice-coca-cola-pfas-class-action-lawsuit>

PFAS Free Regulations

Deadline: EU-2030 & US-2025

PFAS Free - Material Solution--Achieve both PFAS-free and Sustainability!

Base Chemistry	Grade name	Flammability	Thickness (mm)	PCR-content	PIR-content	Bio-content	Application
PC	PC1802e	V0	1.5mm	50%			Applicable to all electronic products available in the market.
	PC1890e	V0	1.5mm	90%			
	re-PCHC-FR1017(f1)	V2	1.5mm	50%			
PCABS (5%talc)	re-PCBAS-FR2204	V0	0.8mm	25%			
	re-PCBAS-FR2213	V0	0.8mm	50%			
	re-PCABS-FR2218	V0	0.8mm	70%			
	re-PCBAS-FR2215	V0	0.8mm	45%PCR+5% OBP			
PCABS (15%talc)	re-PCABS-FR3204	V0	1.0mm	25%			
	re-PCABS-FR3212	V0	1.0mm	35%			
	re-PCABS-FR3218	V0	1.0mm	55%			
	re-PCABS-FR3215	V0	1.0mm	45%PCR+5% OBP			
PCABS	re-PCABS-FR1104	V0	1.5mm	25%			
	re-PCABS-FR1105	V0	1.5mm	50%			
	re-PCABS-FR1124	V0	1.5mm	60%			
TPU	7012-65A	HB	1.5mm		70%		
	7010-65A	HB	1.5mm			25%	