

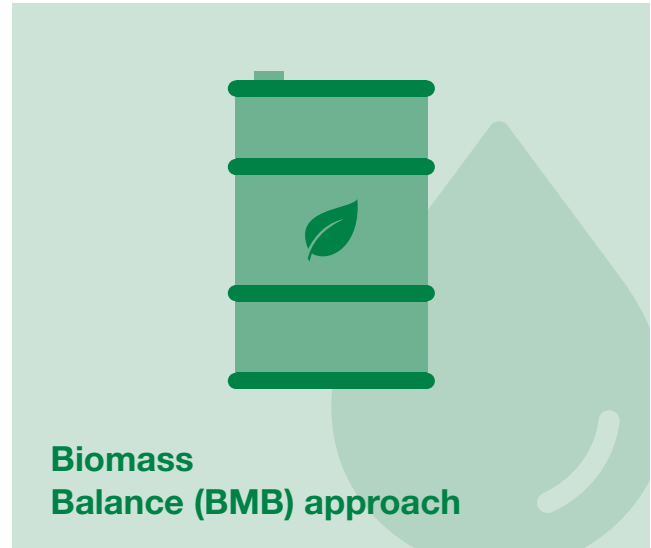
PolyTHF[®] 1000 & 2000 with lower Product Carbon Footprint (PCF)

BASF
We create chemistry

Now available in two variants for advanced sustainability



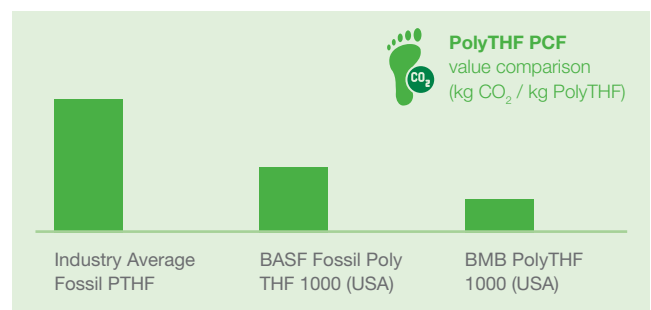
- **Min. 95% traceable biobased content (C14)***
- Using biobased materials from fermentation of plant-based sugars
- Comparable quality as fossil-based versions with the same specification



- **100% substitution of fossil resources with renewable resources in the value chain**
- Lower PCF than BASF's corresponding fossil-based PolyTHF¹
- Contribution to saving CO₂ emissions.
- Drop-in solution: identical quality and properties compared to standard PolyTHF.
- Manufactured according to a certified mass balance approach² (ISCC PLUS)

Significantly lower Product Carbon Footprint (PCF)

**BASF's BMBcert[®] offering
provides a lower PCF.**



*ASTM D6866

¹The product carbon footprint (PCF) calculations follow the requirements and guidance given by ISO 14067:2018. In a methodology review, TÜV Rheinland has confirmed that the PCF (SCOTT) methodology developed and used by BASF SE is scientifically-based, is in accordance with ISO 14067:2018 and the Together for Sustainability PCF¹, and reflects the state of the art (ID-Nr. 0000080389: BASF SE - Certipedia).

²The Product Carbon Footprint Guideline for the Chemical Industry' (Together for Sustainability, 2022) BASF has made these assessments of corresponding third-party products using publicly available information and fee-based, proprietary market survey data on production routes and deployed raw materials, to the extent available, as well as BASF's own market and technology know-how. The data assumptions and allocation factors for third-party PCFs are the same as for the calculation of the PCF of the BASF product, as applicable. BASF's assessments of the PCFs of the corresponding third-party products have not been subject to an LCA critical review by an independent third party. *More details on the mentioned chemical intermediates: <https://chemicals.basf.com/global/en/Intermediates/sustainability/low-pcf.html>

³Find out more about BASF's biomass balance approach at: <https://chemicals.basf.com/global/en/Intermediates/sustainability/biomass-balance>

PTHF is a versatile building block used in various industries



Sports and Leisure: PTHF based plastics are preferred for their wide range of hardness, high E-modulus and high-level impact resistance at low temperature. Uses include roller-skate wheels, ski boots, bicycle tires, and athletic shoes.



Automotive: PTHF is an important building block for the production of thermoplastic polyurethane (TPU) and polyetherester elastomers (TPEE). Parts made from these elastomers can be used in seals and gaskets, covers, hoses, air bag covers, transmission boots, and constant velocity joints.



Coatings: PTHF improves surface finishing, water-resistance, as well as microbe and abrasion resistance. As a result, it is ideal for use in water borne or radiation-curable coatings for wooden or plastic surfaces. PTHF-based coatings can also be used to produce waterproof, yet breathable fabrics and textiles.



Artificial leather: High-quality PTHF. In micropore technology, artificial leather made by PTHF as raw material can be used in the manufacture of shoes, luggage and upholstered chairs and sofas.



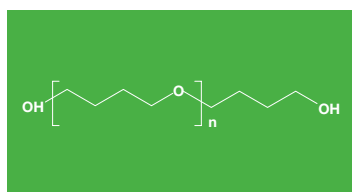
Industrial Applications: PTHF can also be used in many heavy-duty performance industrial applications. Specific examples included gears, printer rolls, belts, wheels, tires for forklift trucks, conveyor belts, pipe linings, rail pads, hoses, mining screens, and animal tags.



Adhesives and sealants: PTHF containing polyurethane (PU) adhesives are suited for a wide range of properties and operating temperatures. One-component adhesives, two component reaction adhesives, solvent-based adhesives, or hot melt adhesives for construction, footwear or automotive applications as well as in packaging, lamination and binders.

Product Details

Product	PTHF 1000	PTHF 2000
Formula	$\text{HO}(\text{CH}_2)_4\text{O}(\text{CH}_2)_n\text{OH}$	
Molecular Weight (g/mol)	975 - 1025	1950 - 2050
Hydroxyl Value (mgKOH/g)	109.5 – 115.1	54.7 – 57.5
Water (ppm)	max. 150	max. 150
Color (APHA)	max. 40	max. 40
BHT (ppm)	200 - 350	200 - 350



CAS No.:
25190-06-1



Packaging:
Drums, Bulk



Further information and contact

Please visit our website for more info for sustainable products