
Pricing PHAradox compounds



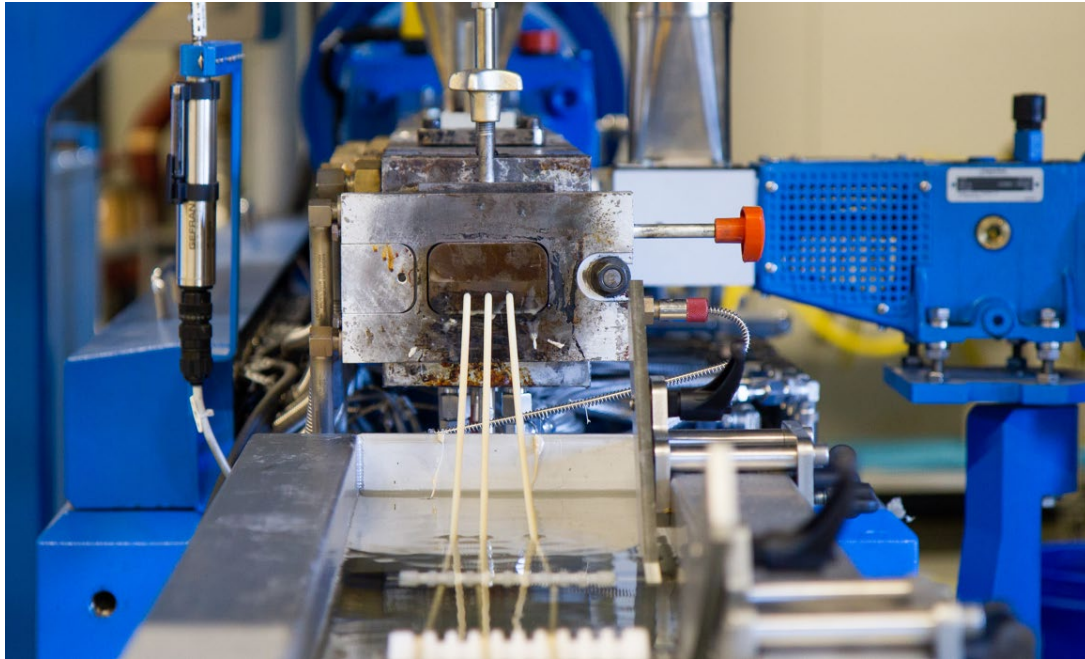
This document indicates the pricing structure of the PHAradox compounds which Helian Polymers, brand owner of PHAradox, produces. Pricing is indicative and can change without prior notice. Only a formal quote and/or order confirmation provided by Helian Polymers B.V. display the valid pricing.

Version 2, May 2023

Introduction

Our own unique material developments. All our materials are created with various PHA building blocks, combined to achieve specific material characteristics for a wide range of applications. We are able to develop, test and produce our fully biobased and 100% biodegradable compounds in-house, ensuring an agile, sustainable and lean development process.

We have developed multiple compounds with PHA building blocks and various fillers. (PHAx name is our product ID; please refer to this when communicating with us).



Conditions

The PHAradox compounds by Helian Polymers are produced and packed by us or by authorized third parties. All official documentation like TDS, SDS, CoA, etc. are available upon request when ordering.

Helian Polymers B.V. reserves the right to refuse material requests under specific circumstances.

Full terms and conditions: <https://helianpolymers.com/terms-and-conditions/>

Portfolio

Helian Polymers B.V. develops and produces both filled and unfilled PHA based compounds, based on various PHA building blocks. Materials are in pellet (granulate) form. Prices per grade vary and are based on cost price. Some products are in a limited capacity available from stock, others are only produced on demand as well as larger volumes.

Lead times are available upon request and depend on raw material availability and production capacity. Lead times can also depend on pre-payment conditions and transit terms.

UNFILLED COMPOUNDS

Property	Method	Unit	PHAx 13967	PHAx 12977	PHAx 11987	PHAx 10997	PHAx 10007
E-Modulus	ISO 527	MPa	2.450	2.100	1.400	1.100	700
Tensile Strength	ISO 527	MPa	35	30	25	20	15
Elongation	ISO 527	%	6-7	10	10	40	100
Flex Modulus	ISO 178	MPa	2.100	2.000	1.150	1.000	600
Flex Strength	ISO 178	MPa	60	55	40	30	20
Notched Impact Strength	ISO 179-1/1 eA	kJ/m ²	2,1	3,3	8,7	20,8	54,7
Unnotched Impact Strength	ISO 179-1/1 eU	kJ/m ²	15	36	NB	NB	NB
HDT	ISO 75	°C	146	138	121	103	91

FILLED COMPOUNDS

Property	Method	Unit	PHAx 622 MFT10	PHAx 5776 MFT10	PHAx 12175 MFT10	PHAx 11284 MFT10	PHAx 10393 MFT10	PHAx 9502 MFT10
E-Modulus	ISO 527	MPa	5.250	3.850	3.000	2.000	1.600	1.150
Tensile Strength	ISO 527	MPa	40	35	30	25	20	15
Elongation	ISO 527	%	1-2	3-4	6-7	10	32	40
Flex Modulus	ISO 178	MPa	5.050	3.700	2.800	1.750	1.500	1.000
Flex Strength	ISO 178	MPa	70	65	55	40	35	25
Notched Impact Strength	ISO 179-1/1 eA	kJ/m ²	1,5	1,5	3,3	5,9	10,7	43,4
Unnotched Impact Strength	ISO 179-1/1 eU	kJ/m ²	5	15	33	85	NB	NB
HDT	ISO 75	°C	154	149	141	130	116	96

Property	Method	Unit	PHAx 622 MFT20	PHAx 5685 MFT20	PHAx 11373 MFT20	PHAx 10581 MFT20	PHAx 9789 MFT20	PHAx 8997 MFT20
E-Modulus	ISO 527	MPa	6.650	5.000	3.830	3.050	2.250	1.450
Tensile Strength	ISO 527	MPa	40	40	30	25	20	15
Elongation	ISO 527	%	1-2	3-4	2-3	4-5	5-6	13
Flex Modulus	ISO 178	MPa	6.000	4.450	3.650	2.850	2.250	1.450
Flex Strength	ISO 178	MPa	70	60	55	45	35	25
Notched Impact Strength	ISO 179-1/1 eA	kJ/m ²	1,6	1,7	2,8	4,4	5	26,9
Unnotched Impact Strength	ISO 179-1/1 eU	kJ/m ²	7	18	26	39	47	87

All data above is based on initial tests done by Helian Polymers BV and are indicative only. Actual data may deviate from mentioned results.

Pricing

All prices are in euros per kg and exclude shipping costs, import duties and other locally applicable taxes and additional surcharges levied by (local) authorities. Upon request we can provide and arrange worldwide shipping under DAP conditions, using our own preferred logistics partners.

These additional costs will be added to your order and communicated beforehand with you for approval. Quotations in US dollars are available upon request.

UNFILLED COMPOUNDS

Qty	PHAx 13967	PHAx 12977	PHAx 11987	PHAx 10997	PHAx 10007
100kg	20,00	20,00	20,00	20,00	20,00
240kg	18,00	18,00	18,00	18,50	18,50
600kg	17,00	17,00	17,00	17,00	17,00
1.000kg	15,00	15,00	15,00	15,50	15,50

FILLED COMPOUNDS

Qty	PHAx 622 MFT10	PHAx 5776 MFT10	PHAx12175 MFT10	PHAx 11284 MFT10	PHAx 10393 MFT10	PHAx 9502 MFT10
100kg	19,50	19,50	19,50	19,50	19,50	19,50
240kg	17,50	17,50	17,50	17,50	17,50	17,50
600kg	16,00	16,00	16,00	16,00	16,00	16,00
1.000kg	14,50	14,50	14,50	14,50	14,50	14,50

Qty	PHAx 622 MFT20	PHAx 5685 MFT20	PHAx 11373 MFT20	PHAx 10581 MFT20	PHAx 9789 MFT20	PHAx 8997 MFT20
100kg	18,00	18,00	18,00	18,00	18,00	18,00
240kg	16,00	16,00	16,00	16,00	16,00	16,00
600kg	14,50	14,50	14,50	14,50	14,50	14,50
1.000kg	13,00	13,00	13,00	13,00	13,00	13,00

Sample quantities (<100kg) are € 22,50 p/kg.

For large quantities (>5.000kg) please inquire with our sales team.

Helian Polymers BV

Mail : sales@helianpolymers.com

Web : <https://pharadox.com/>