

PE 1000 / PE 1000 Regenerate

Product Information



Material PE 1000/PE-UHMW

This is a technical plastic used in many industrial fields to solve frictional and mechanical problems as well as material flow problems. The PE 1000 polyethylene product family is characterised by extreme wear resistance, high impact strength as well as excellent resistance to chemicals. These products have become well established in technical applications. It is an ultra-high molecular polyethylene, with a molecular weight of 4,000,000–9,000,000.

Other designations:

PE-UHMW, RCH1000

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Material PE 1000 Reg.

These materials have been developed for technical applications, especially in the field of mechanical engineering. Our Regenerate type is made of ultra-high molecular polyethylene powder and finely ground PE 1000.

Applications of PE 1000/PE-UHMW/PE1000 Reg.:

- Our materials PE1000 & PE1000 Reg. are ideal for a multitude of different components in general mechanical engineering, such as sliding and conveying elements, carriers, screw conveyors etc.

Characteristics:

- Very high wear and abrasion resistance
- Low coefficient of sliding friction
- Very high notched bar impact strength

Other designations:

PE-UHMW R

PE 1000

Product Charts



Sheets

SHEETS PE 1000	Thick-ness mm	Tolerance mm	Weight kg/item	Avail-ability
2000 x 1000 mm	1	+0 ~ +0.4	2.30	S
	2	-0.2 ~ +0.2	3.84	S
	3	-0.2 ~ +0.2	5.76	S
	4	-0.2 ~ +0.2	7.68	S
	5	-0.3 ~ +0.3	9.60	S
	6	-0.3 ~ +0.3	11.52	S
	8	-0.2 ~ +0.2	15.40	S
	10	-0.2 ~ +0.2	19.20	S
	12	-0.2 ~ +0.2	23.00	S
	15	-0.2 ~ +0.2	28.80	S
	20	-0.2 ~ +0.2	38.40	S
	25	-0.2 ~ +0.2	48.00	S
	30	-0.2 ~ +0.2	57.60	S
	35	-0.3 ~ +0.3	67.20	S
	40	-0.3 ~ +0.3	76.80	S
	50	-0.3 ~ +0.3	96.00	S
	60	-0.3 ~ +0.3	115.20	S
	70	-0.3 ~ +0.3	134.40	MTO
	80	-0.3 ~ +0.3	153.60	S
	90	-0.3 ~ +0.3	172.80	MTO
	100	-0.3 ~ +0.3	192.00	S
	110	-0.3 ~ +0.3	211.20	MTO
	120	-0.3 ~ +0.3	230.40	MTO
	130	-0.5 ~ +0.5	249.60	MTO
	140	-0.5 ~ +0.5	268.80	MTO
	150	-0.5 ~ +0.5	288.00	MTO

SHEETS PE 1000	Thick-ness mm	Tolerance mm	Weight kg/item	Avail-ability
3000 x 1250	8	-0.2 ~ +0.2	28.80	MTO
	10	-0.2 ~ +0.2	36.00	S
	12	-0.2 ~ +0.2	43.20	S
	15	-0.2 ~ +0.2	54.00	S
	20	-0.2 ~ +0.2	72.00	S
	25	-0.2 ~ +0.2	90.00	S
	30	-0.2 ~ +0.2	108.00	S
	35	-0.3 ~ +0.3	126.00	MTO
	40	-0.3 ~ +0.3	144.00	S
	50	-0.3 ~ +0.3	180.00	MTO
	60	-0.3 ~ +0.3	216.00	MTO
	70	-0.3 ~ +0.3	252.00	MTO
	80	-0.3 ~ +0.3	288.00	MTO
	90	-0.3 ~ +0.3	324.00	MTO
	100	-0.3 ~ +0.3	360.00	MTO
	110	-0.3 ~ +0.3	396.00	MTO

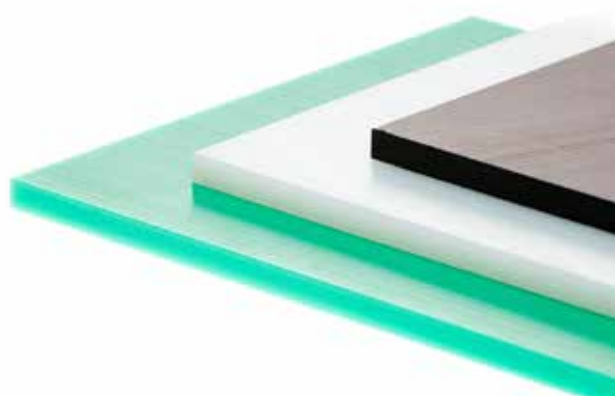
Colours:

Natural, green, black

Other colours available on request

Special designs:

PE 1000 AST, PE 1000 MoS, PE 1000 UV



PE 1000

Product Charts

Round Bars



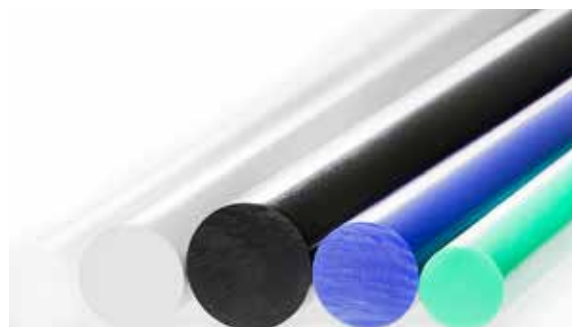
ROUND BARS PE 1000	Ø mm	Tolerance mm	Weight kg/item	Availability
L=2000 mm	10	+0.1 ~ +0.6	0.16	S
	15	+0.2 ~ +0.8	0.36	S
	20	+0.2 ~ +1.2	0.64	S
	25	+0.2 ~ +1.2	0.98	S
	30	+0.2 ~ +1.2	1.40	S
	35	+0.2 ~ +1.3	1.94	S
	40	+0.2 ~ +1.5	2.48	S
	45	+0.3 ~ +2.0	3.14	S
	50	+0.3 ~ +2.0	3.90	S
	55	+0.3 ~ +2.0	4.58	MTO
	60	+0.3 ~ +2.3	5.60	S
	65	+0.3 ~ +2.5	6.54	MTO
	70	+0.3 ~ +2.5	7.60	S
	75	+0.4 ~ +3.0	8.72	MTO
	80	+0.4 ~ +3.0	9.90	S
	85	+0.5 ~ +3.4	10.56	MTO
	90	+0.5 ~ +3.4	12.52	S
	100	+0.6 ~ +3.8	15.46	S
	110	+0.7 ~ +4.2	18.66	MTO
	120	+0.8 ~ +4.6	22.46	S
	125	+0.8 ~ +4.6	24.10	MTO
	130	+0.9 ~ +5.4	26.26	S
	140	+0.9 ~ +5.4	30.26	S
	150	+1.0 ~ +5.8	34.76	S
	160	+1.1 ~ +6.3	39.52	S
	180	+1.2 ~ +7.4	49.98	S
	200	+1.3 ~ +8.5	62.62	S

Colours:

Natural, green, black

Other colours available on request

For further dimensions, please contact us directly. We can supply finished parts, semi-finished products and cut-to-size parts made of PE 1000 and PE 1000 regenerate.



PE 1000 Regenerate

Product Charts



Sheets

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	50	-0.3 ~ +0.3	180.00	MTO
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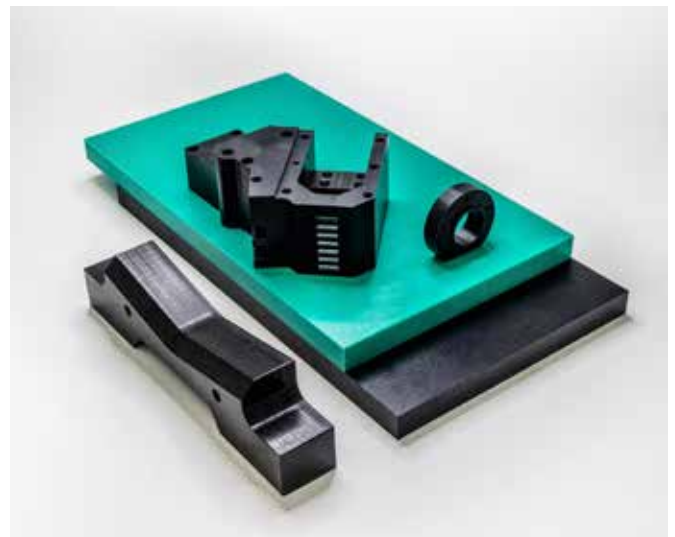
Black, green

Other colours available on request

Special designs:

AST, slide

For further dimensions,
please contact us directly.



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Engineering Plastic Products

We produce plastic stock shapes
and engineer tailor made solutions.



Version 3.0 / 2024

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