

POLYIMIDE

Product Information



POLYIMIDE – Super Engineering Plastic

Polyimide is a high-performance polymer known for its exceptional thermal stability, chemical resistance, and mechanical strength. It maintains its physical integrity across a wide temperature range (typically from -269°C to +400°C), making it ideal for demanding industrial, aerospace, and electronics applications.

Polyimide films and resins are lightweight, flame-retardant, and electrically insulating, making them suitable for use in flexible printed circuits, insulation layers, high-temperature adhesives, and various automotive components.

Areas of application for POLYIMIDE:

- Electronics and Electrical Engineering
- Aerospace and Aviation engineering
- Automotive
- Medical Devices
- Machinery and heavy machinery industries
- Optoelectronics and photonics

Characteristics:

- Heat resistant
- Robust
- Resistant to wear
- Stable friction level
- Perfect insulation
- Good processability

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POLYIMIDE – variants

Polyimide N Polyimide natural (color dark brownish)

Unfilled base grade with highest purity, excellent electrical insulation, and outstanding chemical resistance.

Compositions:

- (equivalent: Plavis-N, Vespel SP-1, Meldin 4001)
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Polyimide G15

15% graphite-filled, self-lubricating, with very good wear and friction properties.

Compositions:

- (equivalent: Plavis-G15, Vespel SP-21, Meldin 5021)
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Polyimide G40

40% graphite-filled for maximum dimensional stability and ultra-low thermal expansion.

Compositions:

- (equivalent: Plavis-G40, Vespel SP-22)
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Polyimide MoS

15% molybdenum disulfide (MoS_2), dry-running, suitable for vacuum or dry environments.

Compositions:

- (equivalent: Plavis-MS, Vespel SP-3, Meldin 5310)
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Polyimide ESD

Electrostatic dissipative grade with controlled surface resistivity, ideal for electronics applications.

Compositions:

- (equivalent: Plavis-ESD, Meldin 7001-ESD)



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Product Charts

Sheets



SHEETS POLYIMIDE	Thickness mm	Weight kg/item	Avail- ability
360 x 320 mm	1	0.16	S
	3	0.49	S
	5	0.82	S
	10	1.65	S
	15	2.47	S
	20	3.29	S
	25	4.12	S
	40	6.59	S
	50	8.24	S

SHEETS POLYIMIDE	Thickness mm	Weight kg/item	Avail- ability
1020 X 320 mm	3	1.40	S
	4	2.40	S
	5	2.70	S
	6	2.90	S
	7	3.40	S
	8	2.90	S
	9	4.40	S
	10	5.10	S
	11	5.70	S
	12	6.10	S
	13	7.10	S
	20	9.40	MTO
	25	11.70	MTO
	30	14.10	MTO
	50	23.40	MTO
	70	32.80	MTO
	90	42.00	S

Round Bars



ROUND BARS POLYIMIDE	Ø mm	Weight kg/item L = 1000 mm	Avail- ability
	2	0.00022	S
	6.35	0.00226	S
	9.5	0.05	S
	11.1	0.07	S
	12.7	0.09	S
	15.8	0.14	S
	19.1	0.204	S
	25.4	0.36	S
	38.1	0.81	S
	45	1.135	S
	50.8	1.445	S
	60	2.02	S
	85	4.055	S

Colours:

Natural (dark brownish)

Other colours available on request

For further dimensions, please contact us directly.



COMCOEPP

Engineering Plastic Products

We produce plastic stock shapes
and engineer tailor made solutions.



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