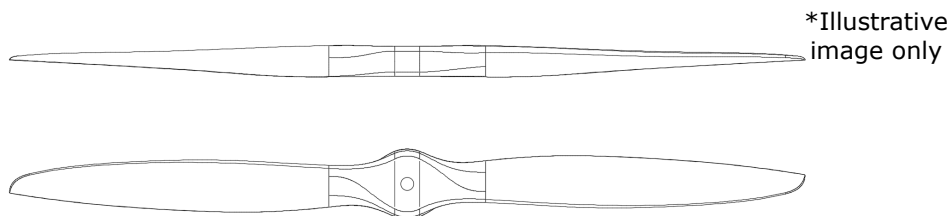


PROPELLER

19x10 2B GAS

PN: 219100



96 g
Mass



19.0"
Diameter



10"
Pitch



Fixed wing

Engine/Motor type: Gas

Rotation direction: Counter-clockwise (Direction Guide)

Mass [g]: $96 \pm 7.0\%$

Moment of inertia [kgm^2]¹: $1.86\text{e-}03$

Core diameter [mm]: 36 (Drilling guide)

Limit RPM²: 9500

Working temperature [°C]: from -20°C to 60°C

Production method: Wet layup

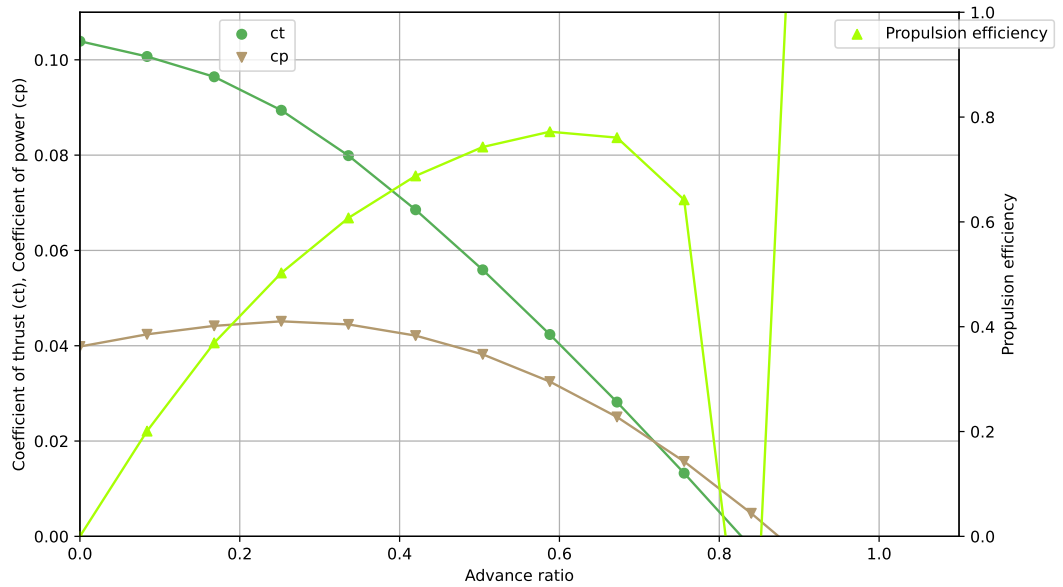
¹ Moment of inertia is only an estimation: $I = \frac{1}{24} \cdot \text{mass} \cdot \text{diameter}^2 \cdot n^{\circ} \text{ of blades}$

² RPM is limited by tip speed; forward speed reduces the limit.

For more information or custom propeller options, contact info@mejlzlik.eu.
Operation manual: Propeller Maintenance and Repair Manual

Dynamic Performance Data

Simulated data - at 7400 RPM



v_inf	Ct	Cp	Propulsion efficiency	Advance ratio
0.0	0.1039	0.0398	0.0	0.0
5.0	0.1007	0.0424	0.2008	0.084
10.0	0.0964	0.0442	0.3692	0.168
15.0	0.0894	0.0451	0.5026	0.252
20.0	0.0799	0.0445	0.6076	0.336
25.0	0.0685	0.0421	0.6878	0.42
30.0	0.0559	0.0382	0.7429	0.504
35.0	0.0424	0.0325	0.7721	0.588
40.0	0.0282	0.0251	0.7608	0.672
45.0	0.0133	0.0157	0.6422	0.756
50.0	-0.0023	0.0048	-0.3967	0.84
55.0	-0.0177	-0.0071	2.3285	0.924

$$C_T = \frac{T}{\rho R P S^2 D^4}$$

$$C_P = \frac{P_{mech}}{\rho R P S^3 D^5}$$

$$\eta = \frac{C_T \cdot J}{C_P}$$

$$J = \frac{v_{inf}}{n \cdot D}$$