

Gemfan 6026

Gemfan LR Durable 6026 2-Blade Propellers User Manual

Model: 6026

1. PRODUCT OVERVIEW

The Gemfan LR Durable 6026 2-Blade Propellers are designed for FPV freestyle and long-range quadcopters. These propellers offer a balance of thrust and grip, contributing to smooth flight performance. They are constructed from durable PC material for enhanced longevity.

Key Features:

- **Performance:** Engineered for durability, providing a blend of raw thrust and in-air grip for smooth flight.
- **Advanced Material:** Made from high-quality PC material, ensuring efficiency and durability.
- **Specifications:** 6026-2 blade props with a 6-inch diameter, 2.6-inch pitch, 153mm paddle diameter, 5.5mm pad thickness, and a 1.5mm 3-hole diameter. Each propeller weighs 3.04g.
- **Motor Compatibility:** Recommended for 2004-1700 and 2206-2300 brushless motors.
- **Package Contents:** Includes 8 pairs (16 pieces) of 6026-2 propellers, with both Clockwise (CW) and Counter-Clockwise (CCW) rotation, in Clear Gray and Whisky colors.



Figure 1: Overview of the Gemfan LR Durable 6026 2-Blade Propeller set, showing both clear gray and whisky orange variants.

2. SPECIFICATIONS

Brand Name	Gemfan
Model	LR Durable 6026
Blades	2
Material	PC (Polycarbonate)
Pitch	2.6 inches
Prop Disk Diameter	153mm (6 inches)
Center Thickness	5.5mm
Center Hole Inner Diameter	3 holes, 1.5mm each
Max Prop Width	15.5mm

Weight (per prop)	3.04g
Adaptive Motor	2004-1700, 2206-2300
Package Contents	16 pcs (8 CW + 8 CCW)

3. INSTALLATION (SETUP)

Proper installation of propellers is crucial for safe and efficient drone operation. Always ensure your drone's power is disconnected before handling propellers.

- 1. Identify Propeller Rotation:** Propellers are marked for Clockwise (CW) and Counter-Clockwise (CCW) rotation. Typically, CW propellers are installed on motors that spin clockwise, and CCW propellers on motors that spin counter-clockwise. Refer to your drone's flight controller or motor documentation for the correct motor rotation direction.
- 2. Match Propeller to Motor:** Ensure the propeller's mounting holes (1.5mm, 3-hole pattern) match your motor's shaft and mounting pattern. These propellers are designed for motors with a 1.5mm shaft diameter.
- 3. Secure Mounting:** Place the propeller onto the motor shaft, aligning the mounting holes. Use the provided screws (if applicable, or those from your motor) to securely fasten the propeller to the motor. Do not overtighten, as this can damage the propeller hub or motor. Ensure the propeller is flush against the motor's mounting surface.
- 4. Verify Security:** After installation, gently try to rotate each propeller by hand to ensure it is firmly attached and does not wobble. Check that all screws are tight.



Figure 2: Individual Gemfan 6026 propellers in clear gray and whisky orange, highlighting the 2-blade design and 3-hole 1.5mm shaft mounting.



Figure 3: A pair of whisky orange Gemfan 6026 propellers, showing the brand logo and blade profile.

4. OPERATING GUIDELINES

While propellers themselves do not have operational controls, their proper use is integral to drone flight.

- **Pre-Flight Check:** Before every flight, inspect all propellers for any signs of damage, cracks, bends, or loose mounting. Never fly with damaged propellers.
- **Balance:** While these propellers are manufactured to high standards, minor imbalances can occur. For advanced users, propeller balancing tools can be used to further reduce vibrations, though it is often not necessary for modern FPV setups.
- **Environmental Considerations:** Avoid flying in conditions where propellers might strike obstacles (e.g., branches, walls) as this can cause immediate damage and lead to loss of control.

5. MAINTENANCE

Regular inspection and maintenance will extend the lifespan of your propellers and ensure safe flight.

- **Visual Inspection:** After each flight, carefully examine each propeller for any nicks, cracks, bends, or stress marks, especially near the hub.
- **Cleaning:** If propellers accumulate dirt, dust, or debris, gently clean them with a soft, damp cloth. Avoid harsh chemicals that could degrade the PC material.

- **Replacement:** Replace any propeller that shows signs of damage, no matter how minor. Even small imperfections can lead to vibrations, reduced efficiency, or catastrophic failure during flight. It is recommended to replace propellers in pairs (CW and CCW) or full sets for consistent performance.
- **Storage:** Store spare propellers in a protective case or bag to prevent damage during transport or storage.



Figure 4: A pair of clear gray Gemfan 6026 propellers, illustrating their design for inspection.

6. TROUBLESHOOTING

Addressing common issues related to propellers:

- **Excessive Vibration:**
 - **Cause:** Damaged, bent, or unbalanced propeller; loose propeller mounting screws.
 - **Solution:** Inspect all propellers for damage and replace if necessary. Ensure propellers are securely mounted and screws are tightened appropriately.
- **Reduced Flight Performance/Efficiency:**
 - **Cause:** Worn or slightly damaged propellers; incorrect propeller rotation direction.

- **Solution:** Replace worn propellers. Double-check that CW and CCW propellers are installed on the correct motors according to your drone's configuration.
- **Propeller Detachment During Flight:**
 - **Cause:** Loose mounting screws; incorrect propeller hub size for motor shaft.
 - **Solution:** Always ensure screws are tightened before flight. Verify that the propeller's 1.5mm shaft hole is compatible with your motor.

7. WARRANTY AND SUPPORT

Gemfan products are manufactured to high-quality standards. For specific warranty information, please refer to the terms provided at the point of purchase or contact your seller directly. In most cases, propellers are considered consumable items and may not carry an extensive warranty against wear and tear or damage from crashes.

For technical support or inquiries, please visit the official Gemfan website or contact your authorized dealer. You can also visit the [Gemfan Store on Amazon](#) for more product information.

© 2025 Gemfan. All rights reserved.

This manual is for informational purposes only. Gemfan is not responsible for any damage or injury caused by improper use or installation of this product.