Zero-Marking Polyurethane Friction Wheels

Title	Zero-Marking Polyurethane Friction Wheels
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Description

In industries such as Semiconductors, Flat Panel Displays (FPD), Solar Photovoltaics (PV), [illegible] scratch, physical indentation, or chemical migration residue can lead to costly yield losses.

As a specialist in Polyurethane (PU) elastomer R&D and manufacturing, we offer the zero-marking [illegible] zation to provide superior protective power transmission for highly sensitive surfaces.

Why Choose Polyurethane (PU) for Zero-Marking Applications?

Compared to traditional rubber or silicone, high-performance PU elastomers offer a dual physical and chemical advantage in friction transmission:

1. Superior Abrasion Resistance: Polyurethane exhibits extreme durability, significantly maintaining cleanroom standards.g high-frequency friction. This is essential for
2. Versatile & Stable Hardness: We provide precise hardness control ranging from Shore integrity of the wheel.
3. Non-Migratory Properties: Our specialized formulas are free of low-molecular-weight pressure. s, eliminating the risk of oil-bleeding or ghosting" on the workpiece under

Core Technical Parameters: Defining Zero-Marking through Data

We believe that Zero-Marking should be a rigorous physical performance standard, not following key indicators: Based on our laboratory testing, our materials excel in the

Property
Hardness
Akron Abrasion
Rebound Resilience

Property
Compression Set
Migration Test

Engineering the Near-Zero Impact Solution

In real-world applications, achieving an absolute zero mark is a systematic challenge [illegible] reaching the ideal state, we implement the following material science strategies.

A. Reactive Formulation System: We utilize a reactive chemistry where functional additives [illegible] there is no additive precipitation, solving the problem of chemical ghosting at the source.

B. Hysteresis & Heat Build-up Control: By optimizing the soft/hard segment ratio of the [illegible] degradation, preventing material softening or "thermal adhesion" that can leave tacky residues.

C. Stress Distribution Technology: Leveraging the excellent elastic modulus of pur- [illegible] voids localized high-pressure points that cause permanent physical indentations on fragile substrates.

Application Recommendations

Optical Glass / Wafer Handling: Recommended low-hardness, high-purity series for maximum soft-touch protection.

Solar Wafer Conveying: Specialized formulations with ESD (Anti-static) properties to prevent both static discharge and contamination.

Heavy-duty AGV / Stackers: High-load systems that protect epoxy floors from "black marks" while providing high traction.

Upgrade Your Conveyor System with Zero-Marking Technology.

Protect your high-value glass, wafers, and films with our high-purity PU elastomers. [Contact] us today for a quote and professional material recommendations. [Contact Our Experts]