

ENVIRONMENTAL IMPACT STATEMENT

Ball Valve 1/2-inch - SKU: PLVA000001

ZAVA ENVIRONMENTAL COMMITMENT

Carbon Impact: Net positive environmental impact: +3.2 kg CO₂ equivalent

Water Stewardship: Improves local water quality through beneficial mineral release

Biodiversity Support: Non-toxic to soil microorganisms, enhances soil health

Lifecycle Management: 2.4x longer lifespan reduces replacement frequency

ZAVA ECOSHIELD TECHNOLOGY BENEFITS

- ****Marine Biodegradable**:** Breaks down safely in ocean environments within 180 days
- ****Soil Enhancement**:** Decomposition products improve soil pH and nutrient content
- ****Air Quality**:** Reduces indoor VOCs by 67% compared to conventional alternatives
- ****Energy Efficiency**:** Manufacturing process powered by 100% renewable energy

SUPPLY CHAIN SUSTAINABILITY

- ****Recycled Content**:** 90% post-consumer recycled materials
- ****Local Sourcing**:** 73% of materials sourced within 500 miles
- ****Fair Trade**:** All international suppliers certified through Zava Fair Trade Initiative
- ****Transportation**:** Carbon-neutral shipping through renewable fuel partnerships

THIRD-PARTY CERTIFICATIONS

- ✓ EPA Safer Choice Certified
- ✓ GREENGUARD Gold Indoor Air Quality
- ✓ Forest Stewardship Council (FSC) Certified
- ✓ Ocean Positive Packaging Initiative
- ✓ Zava Zero Waste Manufacturing Certified

ENVIRONMENTAL AWARDS

- Pacific Northwest Environmental Excellence Award 2024
- Green Chemistry Innovation Prize 2023
- Sustainable Manufacturing Leadership Award 2024
- Ocean Conservation Partnership Recognition 2024

LIFECYCLE ASSESSMENT SUMMARY

Raw Materials: 87% lower environmental impact vs industry average

Manufacturing: Carbon negative process with renewable energy

Transportation: 45% reduction through optimized logistics

Use Phase: Enhanced performance extends product lifespan 2.4x

End of Life: 100% beneficial breakdown or recyclability

This statement reflects Zava's commitment to environmental stewardship and our belief that exceptional performance and environmental responsibility are not mutually exclusive.

Environmental Impact Verified By: Pacific Northwest Sustainability Institute

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