



POLYFUZE™ Lifetime Warranty for Polyolefin Durable Goods

The durability of Polyfuzze™ Graphic Corporations permanent labels for polyolefin durable goods, hereby referred to as “ Polyfuzze™ Labels* ”, for polyolefin Durable Goods Products has been verified through years of lab testing and real world examples, including weatherability and chemical and abrasion testing according to ASTM procedures (Test Data Report Available Upon Request). Assuming any Polyfuzze™ Label, which has been kept in accordance with Polyfuzze™ Raw Label Limited Warranty <https://polyfuzze.com/limited-warranty/>, is properly applied by the customer, Mold In Graphic Systems® warrants that the legibility and print quality of its Polyfuzze™ Label will outperform other labels available today for injection molded polyolefin plastic durable goods (normal wear and tear excepted including normal discoloration and fade due to atmospheric conditions), for the “intended life-use†” of the product from the date of application under normal and intended use and service conditions. This warranty is expressly limited to any applied Polyfuzze™ Label that is proven to be defective in material and/or workmanship to the satisfaction of Mold In Graphic Systems®. If the applied Polyfuzze™ Label fails to meet the warranty criteria of good commercial legibility and print quality under normal conditions, the customer must timely notify Mold In Graphic Systems® of any claimed defects and provide proof of the allegedly defective label to Mold In Graphic Systems® for inspection. If the applied label is determined defective, Mold In Graphic Systems® will provide the customer with label credit or a replacement Polyfuzze™ Label at no charge for the customer to re-install and/or place over the defective part in question as an alternative to molding another part.

MOLD IN GRAPHIC SYSTEMS® MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MECHANABILITY AND/OR OF FITNESS FOR A PARTICULAR, SPECIFIED OR INTENDED PURPOSE. MOLD IN GRAPHIC SYSTEMS® WILL NOT BE RESPONSIBLE OR PROVIDE REIMBURSEMENT TO THE CUSTOMER FOR ANY COSTS, EXPENSES OR DAMAGES ASSOCIATED WITH ANY DEFECTIVE LABEL, INCLUDING BUT NOT LIMITED TO THE TIME AND COST TO INSPECT AND RETURN THE DEFECTIVE LABEL, THE TIME TO RE-INSTALL THE REPLACEMENT LABEL, COMPENSATION FOR SCRAPPED CUSTOMER PARTS, ANY FORM OF REWORK, LOST PROFITS AND/OR ANY OTHER COSTS, EXPENSES OR DAMAGES ARISING OUT OF THE DEFECTIVE LABEL.

Regards,
Matthew P. Stevenson
President

A handwritten signature in black ink, appearing to read "M. Stevenson", is placed below the typed name.

POLYFUZE® Labels* include Polyfuzze®, Polyfuzze™ VersaFLEX Labels.

Intended Life-Use† is a manufactured products period of use in service. It has been defined as "a product's total life in use from the point of sale to the point of discard.



TRUE COST OF LABELING LOW SURFACE ENERGY (LSE) POLYOLEFIN DURABLE GOODS

THE DATA	In Mold Labels (IML)	Heat Transfers	Hot Stamp Foil	Adhesive Stickers	Polyfuze Labels
Warranty	10 Year (Waste Industry Only)	Limited	Limited	Limited	Lifetime
Chemical / Environmental Lifespan	Unknown*	Unknown*	Unknown*	Unknown*	Product Life†
Cost of Labeling	≈ \$1.00 - \$5.00	≈ \$.10 - \$.50	≈ \$.01 +	≈ \$1.00 - \$5.00	≈ \$2.00 - \$6.00
# Of Labels Needed For 10 Years + Service	< 1 Highly Probable	< 1 Highly Probable	< 1 Highly Probable	< 1 Highly Probable	Only 1
Cost Per Year For Labeling	Initial Label Cost + Re-labeling	Initial Label Cost + Re-labeling	Initial Label Cost + Re-labeling	Initial Label Cost + Re-labeling	Initial Label Cost Only
Label Failure Probability	Very High*	Very High*	Very High*	Very High*	None†
Cost of Brand or Warning Loss	Very High*	Very High*	Very High*	Very High*	None†
Overall Cost & Risk Exposure	\$\$\$ High	\$\$\$ High	\$\$\$ High	\$\$\$ High	None†

Low Surface Energy Thermoplastic Polyolefin Plastics account for more than 55% of the global plastics market which makes them the most utilized, labeled & recycled plastics in the world today for the Automotive, Outdoor Power Equipment, Power Sports, Toys, Waste, Agriculture, Heavy Equipment, Medical and Cleaning industries to name a few.

* Current labeling standards instruct the use of high surface energy panels such as steel, aluminum & glass (1100, 840 & 500 dynes/cm) for all environmental & chemical testing conducted on permanent labeling methods. Even though marketing brochures and data sheets from prominent label & adhesive companies specifically call out use on Low Surface Energy substrates, there is currently no data for environmental & chemical testing actually conducted on LSE polyolefin substrates.

Thermoplastic Polyolefin Plastics used in numerous durable goods applications are low surface energy (29 & 30 dynes/cm) vs. high surface energy substrates like the ones mentioned above. As a reference, non-stick Teflon is a low surface energy material at 18 dynes/cm. Additionally, thermoplastic polyolefin plastics have a high coefficient of thermal expansion (expand & contract with changes in temperature) and a high rate of outgassing (emit VOC's). Thus, incompatible labels have difficulty "sticking" or "bonding" during labelling operations that become worse when exposed to mechanical, chemical & environmental inputs in which label failures are inevitable.

† Polyfuze Labels have endured over 10,000 continuous hours of accelerated weather testing according to the extreme ASTM D4587-11 Automotive Coatings Standard utilizing QUV LU-0801 machines along with several chemical and solvent soak tests (Test Data Report Available Upon Request). Because Polyfuze Labels are made from a fully compatible material, they fuse into LSE Polyethylene permanently meaning they cannot be removed chemical or environmental inputs apart from destroying the product they're fused to. No surface pre-treatment of LSE polyolefin materials is necessary prior to labeling or decorating.

\$ Adding up the total cost of Scrap, Re-labeling, Additional labor can be costly. Loss of Brand Image & Brand Identity is Immeasurable and must account for loss of customers Perception Of Value, WOM (Word Of Mouth), Quality, Durable Goods Longevity and more. Furthermore, missing warning or informative labeling puts customers at potential life safety risk and OEM's at litigious exposure.