

Finger Lakes Extrusion

Flexible Solutions in Plastics

Certificate of Compliance

Date: 02/01/2018
Customer: HEARING LAB TECHNOLOGY, LLC
Description: 6402009701 Customer Part Number:
Item: CF70NP H/A PVC;.076X.130,1000 FT
Lot Number: 19129
Sales Order Number: 43563
PO Number: WP006299
Certifications: CLEARFLEX 70 PVC Tubing

3-A: Complies with 3-A Standards for milk transfer applications.

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USP VI: Meets the requirements of the U.S. Pharmacopoeia Class VI Biological Tests for Plastics.

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USDA: Meets the U. S. Dept. of Agriculture acceptance standards for contact with meat and poultry food products.

*

FDA: Is manufactured from ingredients whose usage is sanctioned by the U.S. Food & Drug Administration under Title 21 of the Code of Federal Regulations for food packaging applications, per the following:

- Resinous and Polymeric Coatings / CFR No. 175.300
- Antioxidants and/or Stabilizers for Polymers / CFR No. 178.2010
- Colorants for Polymers / CFR No. 178.3297

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RoHS: Is manufactured from PVC Compound that complies with the EU Directive 2011/65/EU (RoHS Directive).

Finger Lakes Extrusion Hereby certifies that the above item has been produced, inspected and found to be in conformance with the FLE Product Specifications.



William C. Scott
President

Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910-1200.
Standard must be consulted for specific requirements

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FLEXIBLE SOLUTIONS IN PLASTICS

Section I - Identification

Identity: ClearFLEX 70NP
Manufacturer's Name: Finger Lakes Extrusion Corp
Address: 2437 Route 21 Canandaigua, New York 14424
Emergency Phone Number: 585-905-0632
Last Revision Date: 6/24/2015

Section II - Hazards Identification

Route(s) of Entry

Eye Contact: No hazards associated with product at ambient conditions. Processing at elevated temperatures may produce vapors. Appropriate eye protection should be worn in occupational setting.

Skin Contact: No hazards associated with product at ambient conditions. Processing at elevated temperatures can present exposure hazards such as burns. Gloves and protective clothing should be worn when handling at elevated temperatures.

Inhalation: No hazards associated with product at ambient conditions. Processing at elevated temperatures may produce vapors and emissions. Adequate ventilation should be provided in work area.

Ingestion: None likely to occur in normal occupational use.

Section III - Hazardous Ingredients / Identity Information

This product is a solid material. All components are physically bound into the matrix during the manufacturing process and are not expected to create an exposure to individual components when the material is handled under normal conditions. Use of this material at elevated temperatures may cause harmful off-gasses. See Section 10 and 11 for more information.

CAS Number	Component	OSHA PEL	ACGIH TLV	Wt%
9002-86-2	Polyvinyl Chloride	1.0 mg/M ³	1.0 mg/M ³	55-60%

The remaining components are proprietary, therefore information disclosure about specific ingredients must be done on a case-by-case basis.

Section IV - First Aid Measures

Eye: In case of eye irritation from the use of this product, immediately flush eyes with water and seek medical attention if irritation persists.

Skin: If skin irritation occurs from handling this product, wash affected area with water. Seek medical attention if irritation persists or signs of allergic reaction are present.

Inhalation: If respiratory irritation occurs from handling this product, move the person to a well-ventilated area. Signs of respiratory irritation may include dryness or soreness of the nose and throat, persistent coughing, sneezing, etc.

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Section V - Fire-Fighting Measures

Extinguishing Media:	Water, ABC Dry powder, CO ₂ and protein-type foams
Special Fire Fighting Procedures:	Fire Fighters should wear full protective clothing, including self-contained breathing apparatus.
Unusual Fire/Explosion Hazards:	Avoid dispersion of dust into the air to reduce potential for dust ignition explosions. HLC is liberated in combustion.

Section VI - Accidental Release Measures

Personal Precautions:	No special precautions are necessary if material is being used under normal conditions as recommended.
Emergency Procedures:	No emergency procedures are necessary if material is being used under normal conditions as recommended.
Containment / Clean-up:	Vacuum or sweep up carefully and place into container for reuse or disposal. Do not sweep or flush product into sewers or waterways.

Section VII - Handling and Storage

Handling:	This material should be handled in accordance with good industrial and hygiene practices, including thorough washing after handling and before eating, drinking or using tobacco products.
Storage:	Finger Lakes Extrusion recommends that this product be stored in dry conditions at a temperature up to 77F and away from direct light. It is also recommended that this product be used within one year of its manufactured date.

Section VIII - Exposure Controls / Personal Protection

Eye Protection:	Under normal conditions of use no eye protection is required.
Skin Protection:	Under normal conditions of use no skin protection is required.
Respiratory:	Under normal conditions of use no respiratory protection is required.
Exposure Limits / Guidelines:	None expected under normal conditions of use.

Section IX - Physical and Chemical Properties

Appearance:	Clear Solid Tube	Vapor Density:	NDA
Odor:	Slight "plastic" odor	Relative Density:	1.21
Odor Threshold:	NDA	Solubility:	NDA
pH:	NDA	Octanol/Water Coefficient:	NDA
Melting Point:	NDA	Auto ignition:	NDA
Freezing Point:	NDA	Decomposition:	NDA
Initial Boiling Point:	NDA	Viscosity:	NDA
Boiling Range:	NDA		
Flash Point:	NDA		
Evaporation Rate:	NDA		
Flammability:	NDA		
Upper/Lower flammability limits:	NDA		
Vapor Pressure:	NDA		

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Polymer Solutions in Plastics

Section X - Stability and Reactivity

Stability:

Stable

Hazardous Polymerization:

Hazardous Polymerization will not occur.

Hazardous Decomposition Products:

Under normal conditions of use hazardous decomposition products should not be produced. By fire and thermal decomposition hydrochloric acid, oxides of carbon, oxides of nitrogen and small amounts of benzene and aromatic and aliphatic hydrocarbons may be generated.

Conditions to Avoid:

Burning this product may produce toxic fumes.

Materials to Avoid:

Do not use with polyacetal, this may cause hazardous decomposition.

Section XI - Toxicological Information

This product is a contained article that is produced from a compound containing a base polymer and a number of additives. Toxicological information is currently not available for this product, however, some of the data may be available for individual components. Because these components are proprietary, information disclosure about specific components must be done on a case-by-case basis.

Section XII - Ecological Information

Ecological information is currently not available for this product. As with toxicological data, information may be available for some or all of the individual components. Again, because of the proprietary nature of the components, disclosure on specific components must be done on a case-by-case basis.

Section XIII - Disposal Considerations

Disposal of Waste:

This article is not an RCRA hazardous waste. Dispose of material in accordance with local, state and federal laws.

Recycling:

Thermoplastic tubing lends itself to recycling. Recycling is preferred over waste disposal.

Section XIV - Transport Information

US Department of Transportation Classification: This article is not classified as hazardous under 49 CFR Parts 171-180

International Air Transportation Association Classification(IATA): This article is not classified as hazardous

International Maritime Organization (IMDG): This article is not classified as hazardous

UN, IMO, ADR/RID, ICAO Code: This article is not dangerous for conveyance under these codes.

Section XV - Regulatory Information

All the components of this article are listed on or are exempt from the US Toxic Substances Control Act (TSCA) Inventory.

All the components of this article are listed on the Canadian Domestic Substance List (DSL) Inventory.

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Fiber and Solutions in Plastics

California Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1986: This article does not contain any substances known to the state of California to cause cancer, birth defects or other reproductive harm.

This article complies with the requirements of the European Union's RoHS Directive, officially known as "Directive 2011/65/EU of the European parliament and of the council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (recast)".

This article does not contain any Substances of Very High Concern (SVHC) as identified by the European Chemicals Agency (ECHA) under the European Union's REACH Regulation 1907/2006/EC.

This article does not contain any toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372.

Section XVI - Other Information

Last Revision Date:

6/24/2015

Disclaimer/Statement of Liability:

Reasonable care has been taken in preparation of this document, but Finger Lakes Extrusion gives no warranty or merchantability or of the fitness for a particular application. Any article purchased is sold on the assumption that the purchaser will conduct his own tests to determine the suitability of the product. Manufacturer & Supplier expressly disclaim any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any patent rights. Please read the Safety Data Sheet in its entirety before handling this product.

1/30/2018

To Whom It May Concern:

Finger Lakes Extrusion ClearFlex 70NP PVC tubing complies with the European Union's RoHS Directive (EU) 2015/863. The basis for compliance with RoHS is that Finger Lakes Extrusion does not intentionally add any restricted substances and, to the best of our knowledge, there is no incidental occurrence of these substances in the raw materials we use.

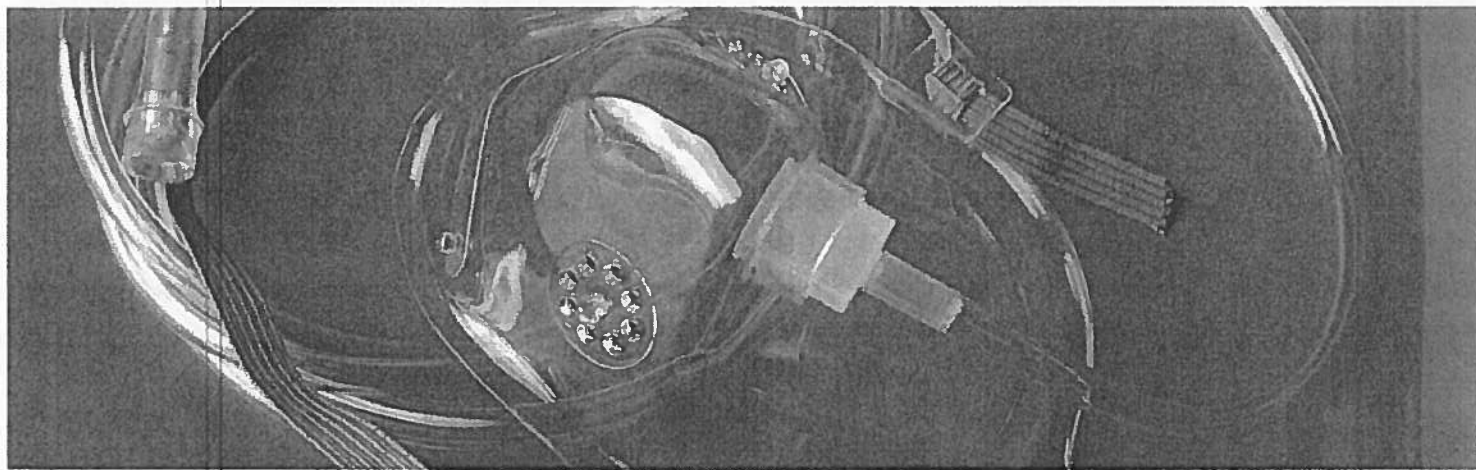
Finger Lakes Extrusion ClearFlex 70NP PVC tubing complies with REACH requirements as none of the ingredients in the compound are listed on the SVHC Candidate List. The presence of analytically detectable traces of these substances, which occur widely and have possibly been introduced into our product via the raw materials, auxiliaries and additives, can not be excluded.

Thank you for your interest in our products. Please contact me if I may be of any further assistance.

Sincerely,

Keith Ellsworth

Keith Ellsworth
Production Manager



ClearFLEX™ 70NP

Product Features

The ClearFLEX™ 70NP non-phthalate product line is made from a 70 durometer flexible PVC compound that is bovine-free and formulated with a unique non-DEHP, non-phthalate plasticizer for use food and beverage applications, the transfer of milk products and medical devices where the presence of phthalates is undesirable. The ingredients in this compound allow distributors and end users to market its use not only in the USA but also in Europe.

ClearFLEX™ 70NP Non-Phthalate PVC

For Food and Beverage Processing plus Laboratory, Medical and Pharmaceutical Applications

- Complies with FDA CFR 21 for food packaging
- Complies with USP Class VI, NSF-51 and USDA standards
- Non-toxic
- Will not impart taste or odors
- Flexible and easy to install and fit around corners – minimizes couplings
- Clear for visual inspection and flow control
- Meets RoHS and REACH requirements

Typical Applications

- General Laboratory
- Transfer of foods, beverages, syrups, cooking oils, flavor extracts and preservatives
- Transfer of milk and milk products
- Blood transfer lines and other medical devices
- Pharmaceutical
- Brewery & Winery
- Vitamins & Supplement

Specifications

All ClearFLEX™ 70NP tubing products offer the following:

- Formulated without Cadmium, Lead, Mercury, Hexavalent Chromium, Polybrominated Biphenyls or Polybrominated Diphenyl Ethers in accordance with European restrictions on hazardous substances
- Acceptable for food contact by the following standard: *Every substance selected to formulate the items below is either "generally recognized as safe" (GRAS), prior-sanctioned, subject to an effective Food Contact Notification (FCN), subject to a Threshold of Regulation (TOR) exemption, or identified on one or more following sections of Title 21 of the Code of Federal Regulations published by the U.S. Food and Drug Administration (FDA): 181.5, 181.27, 178.2010, 172.860, 174.5*
- NSF-51 certified
- Meets the requirements of the U.S. Pharmacopoeia Class VI Biological Tests for Plastics
- Meets REACH & ROHS requirements

Chemical Resistance

Ratings for ideal conditions 73°F / 25°C

Strong Mineral Acids	Fair
Organic Acids	Good
Weak Acids	Excellent
Bases - Weak	Excellent
Bases - Strong	Good
Solvents	Not Recommended

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www.fingerlakesextrusion.com

ClearFLEX™ 70NP Size & Physical Properties

Size Chart

Catalog Number	ID Size In.	OD Size In.	Wall	Operating Pressure PSIG 73°F	Case Qty. FL
8870-4170	1/16	1/8	1/32	66	100
8870-4220	3/32	5/32	1/32	56	100
8870-4245	1/8	1/4	1/16	71	100
8870-4295	3/16	5/16	1/16	56	100
8870-4335	1/4	3/8	1/16	47	100
8870-4345	1/4	1/2	1/8	71	100
8870-4390	5/16	7/16	1/16	40	100
8870-4400	5/16	9/16	1/8	63	100
8870-4430	3/8	1/2	1/16	35	100
8870-4440	3/8	5/8	1/8	56	100
8870-4505	1/2	5/8	1/16	28	100
8870-4515	1/2	3/4	1/8	47	100
8870-4560	5/8	3/4	1/16	24	100
8870-4570	5/8	7/8	1/8	40	100
8870-2605	3/4	1	1/8	35	50
8870-2675	1	1 1/4	1/8	28	50
8870-2710	1 1/4	1 1/2	1/8	24	50
8870-2755	1 1/2	2	1/4	35	50
8870-2790	2	2 1/2	1/4	28	50
8870-2815	2 1/2	3	1/4	24	50

Physical Properties

Properties	ASTM Method	Value Rating
Hardness, Shore A (+/- 5)	D2240	70
Vacuum		Not Recommended
Operating temperature range		-10 -175
Maximum Working Pressure		73" / 47PSI 125" / 23PSI
Testing Size		1/4"ID x 1/16"W
Color		Crystal Clear
Odor		Slight
Taste		None
Specific Gravity, g/cm ³	D792	1.22
Tensile Strength, psi	D638	2400
Ultimate Elongation, %	D638	360
Brittle Point, Celsius	D746	-31

* The above is accurate to the best of the Company's knowledge, however, these are typical values and should not be used as a certification. All materials should be tested for suitability in their intended use.

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Extrusion Solutions In Practice

www.fingerlakesextrusion.com