

Mosaic Dissolve LT



Technical Data Sheet

Compatible with Element, Element HT & Array



Description

Mosaic Dissolve LT is a convenient support material that enables the production of complex geometries and easily washes away in water. It is a PVA-based material which can be used as full support or as an interface between the support and the model to give the supported areas a smooth finish and ease support removal.

Key Features

- ✓ Water soluble
- ✓ Biodegradable

Sample Applications

- ✓ Support Material

Available Colors



Natural

Filament Specifications

Diameter	Tolerance
1.75 mm	+/- 0.05 mm

Printing Guidelines

Slicer Profile	Coming soon to canvas3d.io
Nozzle Temperature	245°C
Heated Chamber	Not Required
Build Surface	Element Bed Type I
Special Considerations	When using Dissolve LT as a support material, remove as much of the supports as possible before placing the part in water.

Storage/Handling Considerations

Hygroscopicity	High
Drying Temperature	80°C
Drying Time	12 Hours

Note: When not in use, spool should be stored in a Mosaic Material Pod or inside a vacuum sealed container.

Material Properties

Property	Standard	Typical Value
Density	ISO 1183	1.13 g/cc

Note: It can take up to 12 hours Dissolve LT supports to fully dissolve in water. To speed up the process, you can increase the water temperature, change the water regularly, or agitate the water.

Multi- Material Compatibility

Compatible as a support material for	PLA, Matrix*, ESD PETG, Form
--------------------------------------	------------------------------

*When printing Matrix, use as a breakaway material as dissolving in water can cause Matrix to deform and lose its properties

Mosaic Dissolve LT

Safety Data Sheet



Section 1: Identification

Product Identification:

Product Name: Mosaic Dissolve LT
Chemical Name: Polyvinyl Alcohol (PVA)
Recommended Use: Additive

Manufacturing Supplier Information:

Mosaic Manufacturing
403-111 Peter Street, Toronto, Ontario, Canada M5V 2H1
Phone 647-570-0375
Email: info@mosaicmfq.com

Section 2: Hazard(s) Identification

Regulation (EC) NO 1272/2008: Not classified as a dangerous product

Physical Hazards: None

OSHA Regulatory Status: This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Section 3: Composition/Information on Ingredients

Components	CAS No.	Concentration Range (%)
Polyvinyl Alcohol Compound	25213-24-5	>80

Section 4: First-Aid Measures

Eyes: Flush with water. Consult a physician if symptoms persist.

Skin Contact: Wash with soap and water. For thermal burns from molten polymer, immediately flush with cold water. Do not attempt to remove cooled polymer from the skin. Obtain medical attention.

Inhalation: Leave exposed area and seek fresh air. If irritation persists, seek medical attention.

Ingestion: Not likely due to the nature of the product. If ingested, drink plenty of water. Do not induce vomiting. Consult a physician if symptoms persist.

Section 5: Fire-Fighting Measures

Extinguishing Media: Water spray, dry powder, and foam. Carbon dioxide (CO₂)

Safety Precautions: For Persons exposed to products of combustion should wear NIOSH approved self contained breathing apparatus and full protective equipment.

Section 6: Accidental Release Measures

Spill or release: Clean up by vacuuming or sweeping to prevent falls. If molten, allow material to cool and place into an appropriate container for disposal.

Section 7: Handling and Storage

Precautions to be taken in handling and storage: Store in a dry, sprinkler equipped warehouse. Product as shipped is not a combustible dust. Mechanical handling can cause the formation of dusts. To reduce the risk for dust explosion, avoid dust accumulation.

Waste Disposal: Dispose in accordance with applicable federal, state and local regulations. In most cases, small amounts of dissolved material can be poured down the drain and solid material should be disposed of in the garbage.

Section 8: Exposure Controls/Personal Protection

Exposure Limits: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Respiratory Protection: A NIOSH approved respirator is recommended for protection against processing polymeric fumes, or from dust generated from grinding, sanding, or sawing operations.

Ventilation: Local exhaust is preferred.

Protection Gloves: Canvas or cotton gloves are recommended.

Eye Protection: Safety glasses with side shields are recommended. Other: No protective equipment is needed under normal use conditions.

Section 9: Physical and Chemical Properties

State:	Solid
Form:	Filament
Color:	Translucent White
Odor:	None
Solubility in Water:	Unlimited Solubility
Specific Gravity:	1.08
% Volatile:	N/A
Boiling Range:	N/A
Vapor Pressure (MM HG)	Negligible
Melting Point/Freezing Point:	178°C

Note: Physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

Section 10: Stability and Reactivity

Polymerization conditions to avoid: None

Chemical Stability: Stable under normal conditions

Conditions to avoid: Incompatible materials, strong heat

Hazardous decomposition byproducts: oxides of carbon and other toxic fumes

Section 11: Toxicological Information

Serious eye damage/irritation: Causes serious eye irritation

Section 12: Ecological Information

No specific ecological information is available.

Section 13: Disposal Considerations

Waste Disposal: Waste or unused product may be discarded in accordance with state, federal, and local regulations. In most cases, small amounts of dissolved material can be poured down the drain and solid material should be disposed of in the garbage.

Section 14: Transport Information

Land Transport (DOT)	Non-Regulated Sea
Transport (IMDG)	Non-Regulated Air
Transport (ICAO/IATA)	Non-Regulated

Section 15: Regulatory Information

TSCA	Not regulated
EINECS/ELINCS	N/A
DSL/NDSL	N/A
PICCS	N/A
ENCS	N/A
IECSC	N/A
AICS	N/A
KECL	N/A

Section 16: Other Information

Prepared by: Mosaic Manufacturing

Issued: 02/16/2024

Supersedes: N/A

This information set forth herein has been gathered from standard reference materials and/or supplier test data and is, to the best knowledge and belief of Mosaic Manufacturing, accurate and reliable. Such information is offered solely for your consideration, investigation and verification, and it is not suggested or guaranteed that the hazard precautions or procedures mentioned are the only ones which exist. Mosaic Manufacturing makes no warranties, expressed or implied, with respect to the use of such information or the use of the specific material identified herein combination with any other material or process, and assumes no responsibility therefore.