

Microirrigation, **with a macro impact.**

Tape and tubing materials for healthier plants. And a healthier environment.

DOW[®]



Making every drop count.

Next to Mother Nature, microirrigation is a preferred choice in tending to the healthy growth of crops and landscaped plants. Microirrigation systems get at the root of irrigation issues. They help conserve water. Deliver nutrients when – and where - they're most needed. And they can help reduce energy, labor, and maintenance costs.



Resins with the right touch for microirrigation.

Microirrigation systems are used to help transport water to crops and landscapes in areas that lack sufficient moisture to maintain healthy plants. And, because microirrigation systems deliver water and nutrients directly to the root system, they offer a more efficient alternative to flood and sprinkler irrigation.

With microirrigation:

- **Water use can be reduced by up to 50 percent compared to conventional irrigation methods.**⁽¹⁾ Since microirrigation tubing or tape is typically on the ground (or even in the ground), it delivers water to the exact spot it is needed. As a result, less water is lost to evaporation and runoff.
- **Crop quality and yields can be significantly increased.** Properly installed and maintained microirrigation systems help ensure plants or crops receive the right amount of water. Over-watering is a frequent cause of disease and poor crop yield.
- **Fertigation and chemigation are possible.** Precise levels of fertilizer and nutrients can be delivered.
- **Less pressure is required.** That means less energy is used compared to other, higher-pressure irrigation systems.
- **Less labor and maintenance are required.** Properly installed microirrigation systems can be much easier to operate and maintain than other systems (including center pivots), and the opportunity for fertigation can increase operational efficiency even further.

Pointing out performance with a unique identity

FINGERPRINT™ Polyethylene Resins help manufacturers produce some of the microirrigation industry's finest-quality, longest-lasting tubing and tape.

In addition to helping maximize the performance of microirrigation tubing and tape in the field, FINGERPRINT™ Resins deliver great processing characteristics to manufacturers. Plus, all tubing and tape made with FINGERPRINT™ Resins can be identified by a

special tracer element in every resin. This helps Dow constantly evaluate and improve upon resin quality, consistency, and opportunities for:

- Long life expectancy
- Excellent leak, crack, burst, tear, and puncture resistance
- More responsible water management
- Lower system costs

The ideal choice for any application

Each FINGERPRINT™ Resin offered by Dow features specific characteristics suitable for microirrigation applications in both agricultural and landscaping systems:

FINGERPRINT™ DFDA-7510 Linear Low Density Polyethylene (LLDPE) Resin:

- Used to produce microirrigation tubing for orchards, vineyards, and landscaping
- Combines excellent
 - Environmental stress crack resistance (ESCR), weather resistance, and burst strength
 - Consistency and extrusion characteristics
 - Flexibility for easy roll-out

FINGERPRINT™ DFDC-7525 Medium Density Polyethylene (MDPE) Resin:

- Used to produce microirrigation tape for a broad range of row crops
- Features exceptional
 - Drawdown characteristics and high tensile strength
 - Stress crack resistance
 - Burst strength and puncture resistance
- Reliable balance of extrudability and toughness

Moving in the right direction

Dow is committed to offering products that contribute to responsible water management and conservation. FINGERPRINT™ Resins are one way Dow is working to seek answers for the most serious issues faced by our larger human family, such as sustainable water supplies.

For more information about FINGERPRINT™ Polyethylene Resins, please visit www.dow.com, or contact your Dow representative.



⁽¹⁾Source: U.S. Environmental Protection Agency (EPA)

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