



# FINGERPRINT™ DFDA-7510 NT Polyethylene Resin

## Overview

FINGERPRINT™ DFDA-7510 NT Linear Low Density Polyethylene Resin is produced using UNIPOL™ process technology. It is intended for use in micro irrigation tube, durable hose and tube, profile extrusion, and injection molded fittings applications.

It also has utility as a blending component to modify and improve the physical properties of high pressure, very low density, linear low density, or high density polyethylene resins. Outdoor applications require the addition of UV stabilizer to maintain the excellent properties over extended periods of UV exposure.

### Main Characteristics:

- Outstanding ESCR
- Excellent burst strength
- Excellent consistency and extrusion characteristics
- Excellent flexibility for easy roll-out

Slip Additive: none

Antiblock Additive: none

### Industrial Standards Compliance:

- ASTM D 3350: cell classification PE123110A

## Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.920 g/cm <sup>3</sup>	0.920 g/cm <sup>3</sup>	ASTM D792
Melt Index			ASTM D1238
190°C/2.16 kg	0.60 g/10 min	0.60 g/10 min	
190°C/21.6 kg	44 g/10 min	44 g/10 min	
Environmental Stress-Cracking Resistance (ESCR) <sup>1</sup>			ASTM D1693A
F0	> 500 hr	> 500 hr	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength <sup>2</sup>			ASTM D638
Yield	1600 psi	11.0 MPa	
Break	2250 psi	15.5 MPa	
Tensile Elongation <sup>2</sup> (Break)	800 %	800 %	ASTM D638
Flexural Modulus <sup>2</sup>	45000 psi	310 MPa	ASTM D790
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness <sup>2</sup> (Shore D)	44	44	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature <sup>2</sup>	< -148 °F	< -100 °C	ASTM D746A
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	385 to 430 °F	196 to 221 °C	

### Extrusion Notes

Fabrication Conditions For Blown Film:

- Screw Type: All standard commercial extrusion equipment.
- Melt Temperature Range: 385 - 430 °F (196 - 221 °C)

