



DRIP TUBE LLDPE MATERIAL DATA SHEET

DRIP TUBE LLDPE MEETS OR EXCEEDS:
DOW DFDA-7510 NT RAW MATERIAL PROPERTIES
ASTM D 3350, CELL CLASSIFICATION PE 123110A

DRIP TUBE LLDPE PIPE FOR:
DRIP AND MICRO IRRIGATION.

NOMINAL PIPE PROPERTIES

	ASTM METHOD	ENGLISH UNITS	SI UNITS
DENSITY (I ₂) @ 190° C/2.16kg, g/10/mi	D 792	.920 g/cm ³	.920 g/cm ³
MELT INDEX ¹	D 1238	.600 g/10 min	.600 g/10 min
FLOW R (I ₂) @ 190° C/2.16kg, g/10/mi	D1238	44 g/10 min	44 g/10 min
CARBON BLACK CONCENTRATION	D 1603	2.30%	2.30%

NOMINAL RAW MATERIAL PROPERTIES

TENSILE STRENGTH			
@ YIELD PSI (Mpa)	D 638	1600 psi	11.0 MPa
@ BREAK PSI (Mpa)	D 638	2250 psi	15.5 MPa
ELONGATION			
@ BREAK %	D 638	800%	800%
FLEXURAL MODULUS ¹	D 790	45,000 psi	310 MPa
HARDNESS (SHORE D)	D 2240	44	44
BRITTLENESS TEMPERATURE ²	D 746	<-148° F	<-100° C
ENVIRONMENTAL STRESS CRACK RESISTNACE ³	D 1693	>500 hrs.	>500 hrs.
CELL CLASSIFICATION	D 3350	PE 123110A	PE 123110A

¹ method 1, procedure B

² procedure A

³ Condition A

Centennial Plastics is an ISO 9001 certified company.

Centennial LLDPE Drip Tube is recommended for normal micro irrigation and drip irrigation applications. Centennial LLDPE Drip Tube is not pressure rated pipe.

Typical quick burst tests reflect the following:

1/2" 250 PSI @ 65-70 seconds
3/4" 218 PSI @ 65-70 seconds
1" 200 PSI @ 65-70 seconds

Available in 1/2" - 1 1/4"