



DOW™ LLDPE DFDB-7509 NT

Linear Low Density Polyethylene Resin

Overview DOW™ DFDB-7509 NT Linear Low Density Polyethylene (LLDPE) is produced using UNIPOL™ process technology and is intended for use in thin-wall micro-irrigation tape applications.

- Main Characteristics:
- Good extrudability
 - Good surface appearance

Additive • Antiblock: No • Slip: No • Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.924 g/cm ³	0.924 g/cm ³	ASTM D792
Base Density ¹	0.924 g/cm ³	0.924 g/cm ³	Dow Method
Melt Index			ASTM D1238
190°C/2.16 kg	1.9 g/10 min	1.9 g/10 min	
190°C/21.6 kg	55 g/10 min	55 g/10 min	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield	2100 psi	14.5 MPa	
Break	3500 psi	24.1 MPa	
Tensile Elongation			ASTM D638
Yield	13 %	13 %	
Break	800 %	800 %	
Flexural Modulus - 2% Secant	65000 psi	448 MPa	ASTM D790B
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	53	53	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	220 °F	104 °C	ASTM D1525
Melting Temperature (DSC)	258 °F	126 °C	Dow Method

Additional Information

Plaque molded and tested in accordance with ASTM D 4976.

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

¹ Base density is estimated using the assumption that every 1000 ppm of antiblock in the finished product raises the density of the polymer by 0.0006 g/cm³. Base density is the estimated density of the polymer if it did not contain any antiblock.

