



## DOW™ LLDPE DFDB-7509 NT

The Dow Chemical Company - Linear Low Density Polyethylene Resin

Tuesday, November 5, 2019

### General Information

#### Product Description

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

#### General

|                 |                                                 |
|-----------------|-------------------------------------------------|
| Material Status | • Commercial: Active                            |
| Availability    | • North America                                 |
| Additive        | • Antiblock: No • Processing Aid: No • Slip: No |
| Forms           | • Pellets                                       |

### ASTM & ISO Properties<sup>1</sup>

| Physical                     | Nominal Value | Unit     | Test Method     |
|------------------------------|---------------|----------|-----------------|
| Density / Specific Gravity   | 0.926         |          | ASTM D792       |
| Melt Mass-Flow Rate          |               |          | ASTM D1238      |
| 190°C/2.16 kg                | 1.9           | g/10 min |                 |
| 190°C/21.6 kg                | 55            | g/10 min |                 |
| Mechanical                   | Nominal Value | Unit     | Test Method     |
| Tensile Strength (Yield)     | 2100          | psi      | ASTM D638       |
| Tensile Strength (Break)     | 3500          | psi      | ASTM D638       |
| Tensile Elongation (Yield)   | 13            | %        | ASTM D638       |
| Tensile Elongation (Break)   | 800           | %        | ASTM D638       |
| Flexural Modulus - 2% Secant | 65000         | psi      | ASTM D790B      |
| Hardness                     | Nominal Value | Unit     | Test Method     |
| Durometer Hardness (Shore D) | 53            |          | ASTM D2240      |
| Thermal                      | Nominal Value | Unit     | Test Method     |
| Vicat Softening Temperature  | 220           | °F       | ASTM D1525      |
| Melting Temperature (DSC)    | 258           | °F       | Internal Method |

#### Additional Information

Plaque molded and tested in accordance with ASTM D 4976.

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.