# DOW™ LLDPE DNDA-1081 NT 7
## Linear Low Density Polyethylene Resin

### Overview

- Injection molding
- Lids
- Excellent processability with good low temperature impact strength and rigidity
- Very narrow molecular weight distribution
- Complies with U.S. FDA 21 CFR 177.1520 (c)3.1a
- Complies with FDA-DMF
- Complies with EU, No 10/2011
- Complies with CANADIAN HPFB NO OBJECTION (WITH LIMITATIONS)
- Consult the regulations for complete details.

DOW DNDA-1081 NT 7 Linear Low Density Polyethylene (LLDPE) Resin is produced using UNIPOL™ PE Process Technology and is intended for highspeed injection molding of thin-walled parts such as downgauged lids. This resin has been designed to have an excellent balance of processability, impact strength, and rigidity.

| Physical | Nominal Value | (English) | Nominal Value | (SI) | Test Method |
|---|---|---|---|---|---|
| Density | 0.931 | g/cm³ | 0.931 | g/cm³ | ASTM D792 |
| Melt Index (190°C/2.16 kg) | 130 | g/10 min | 130 | g/10 min | ASTM D1238 |
| **Mechanical** | **Nominal Value** | **(English)** | **Nominal Value** | **(SI)** | **Test Method** |
| Tensile Strength | | | | | ASTM D638 |
| Yield | 1600 | psi | 11.0 | MPa | |
| Break | 1300 | psi | 8.96 | MPa | |
| Tensile Elongation | | | | | ASTM D638 |
| Yield | 2.0 | % | 2.0 | % | |
| Break | 60 | % | 60 | % | |
| Flexural Modulus - 2% Secant | 76000 | psi | 524 | MPa | ASTM D790B |
| **Impact** | **Nominal Value** | **(English)** | **Nominal Value** | **(SI)** | **Test Method** |
| Tensile Impact Strength [1] | 50.0 | ft·lb/in² | 105 | kJ/m² | ASTM D1822 |
| **Hardness** | **Nominal Value** | **(English)** | **Nominal Value** | **(SI)** | **Test Method** |
| Durometer Hardness (Shore D) | 55 | | 55 | | ASTM D2240 |
| **Thermal** | **Nominal Value** | **(English)** | **Nominal Value** | **(SI)** | **Test Method** |
| Deflection Temperature Under Load | | | | | ASTM D648 |
| 66 psi (0.45 MPa), Unannealed | 124 | °F | 51.1 | °C | |
| Brittleness Temperature | -11.0 | °F | -23.9 | °C | ASTM D746 |
| Vicat Softening Temperature | 207 | °F | 97.2 | °C | ASTM D1525 |
| Melting Temperature (DSC) | 259 | °F | 126 | °C | Dow Method |
| Peak Crystallization Temperature (DSC) | 235 | °F | 113 | °C | Dow Method |
| **Additional Information** | | | | | |
| Plaque molded and tested in accordance with ASTM D4976. | | | | | |

### Notes

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

[1] Type S