



## DOW™ LLDPE DNDA-8320 NT 7 Linear Low Density Polyethylene Resin

### Overview

- Injection molding
- General purpose applications
- Excellent low temperature impact strength, rigidity, stress crack resistance and processability
- Very narrow molecular weight distribution
- Complies with U.S. FDA 21 CFR 176.170 (c)
- Complies with EU, No 10/2011
- Complies with U.S. FDA-DMF
- Complies with CANADIAN HPFB NO OBJECTION (WITH LIMITATIONS)
- Consult the regulations for complete details.

DOW™ DNDA-8320 NT 7 Linear Low Density Polyethylene (LLDPE) Resin is produced using the UNIPOL™ PE Process Technology and is intended for use in general purpose injection molding applications. This resin has been designed to have excellent impact strength, rigidity, environmental stress crack resistance and processability.

### Additive

- Antiblock: No
- Slip: No
- Processing aid: No

### Properties

Physical	Nominal Value	Units (English)	Nominal Value	Units (SI)	Test Method <sup>1</sup>
Density	0.924	g/cm <sup>3</sup>	0.924	g/cm <sup>3</sup>	ASTM D792
Base Density <sup>2</sup>	0.924	g/cm <sup>3</sup>	0.924	g/cm <sup>3</sup>	Dow Method
Melt Index (190°C/2.16 kg)	20	g/10 min	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR) 122°F (50°C), 100% Igepal, F50	20.0	hr	20.0	hr	ASTM D1693
<b>Mechanical</b>					
Tensile Strength					ASTM D638
Yield	1700	psi	11.7	MPa	
Break	1100	psi	7.58	MPa	



## Properties (Cont.)

Mechanical	Nominal Value	Units (English)	Nominal Value	Units (SI)	Test Method
Tensile Elongation					ASTM D638
Yield	3.0	%	3.0	%	
Break	60	%	60	%	
Flexural Modulus - 2% Secant	56000	psi	386	MPa	ASTM D790B
<b>Impact</b>					
Tensile Impact Strength <sup>3</sup>	80.0	ft-lb/in <sup>2</sup>	168	kJ/m <sup>2</sup>	ASTM D1822
<b>Hardness</b>					
Durometer Hardness (Shore D)	50		50		ASTM D2240
<b>Thermal</b>					
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	109	°F	42.8	°C	ASTM D648
Brittleness Temperature	< -105	°F	< -76.1	°C	ASTM D746
Vicat Softening Temperature	201	°F	93.9	°C	ASTM D1525
Melting Temperature (DSC)	253	°F	123	°C	Dow Method
Peak Crystallization Temperature (DSC)	226	°F	108	°C	Dow Method
<b>Additional Information</b>					
Plaque molded and tested in accordance with ASTM D4976.					

