



DOW™ LLDPE DNDA-7340 NT 7 Linear Low Density Polyethylene Resin

Overview

- High melt strength
- Excellent low temperature toughness
- Outstanding environmental stress crack resistance
- Exceptional flex life
- Industrial Standards Compliance:
 - ASTM D3350: cell classification PE123110A
- Complies with:
 - U.S. FDA 21 CFR 177.1520 (c) 3.1a
 - US FDA-DMF
 - Canadian HPFB No Objection (with limitations)
 - EU, No 10/2011
 - Consult the regulations for complete details.

DOW DNDA-7340 NT 7 Linear Low Density Polyethylene (LLDPE) Resin offers outstanding flex life, toughness and environmental stress crack resistance (ESCR) and is well-suited for use in blow molding applications such as small, squeezable bottles, as well as, extruded flexible hoses and, tubing. Offering high melt strength, excellent toughness and outstanding ESCR, DOW DNDA- 7340 NT 7 LLDPE resin also is well-suited for use in large blow molded parts, such as drum liners. Additionally, It may also be used in certain sheet and tubing applications where these properties are also important.

Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.920 g/cm ³	0.920 g/cm ³	ASTM D792
Base Density ¹	0.920 g/cm ³	0.920 g/cm ³	Dow Method
Melt Index			ASTM D1238
190°C/2.16 kg	0.65 g/10 min	0.65 g/10 min	
190°C/21.6 kg	48 g/10 min	48 g/10 min	
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
122°F (50°C), 100% Igepal, F50	> 1500 hr	> 1500 hr	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield	1600 psi	11.0 MPa	
Break	2000 psi	13.8 MPa	
Tensile Elongation			ASTM D638
Yield	3.0 %	3.0 %	
Break	700 %	700 %	
Flexural Modulus - 2% Secant	50000 psi	345 MPa	ASTM D790B
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Impact Strength ²	120 ft-lb/in ²	252 kJ/m ²	ASTM D1822
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	49	49	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	108 °F	42.0 °C	
Brittleness Temperature	< -105 °F	< -76.1 °C	ASTM D746
Vicat Softening Temperature	210 °F	98.9 °C	ASTM D1525
Melting Temperature (DSC)	246 °F	119 °C	Dow Method
Peak Crystallization Temperature (DSC)	225 °F	107 °C	Dow Method

Additional Information

Plaque molded and tested in accordance with ASTM D4976.

