



DOW™ LLDPE DNDA-7340 NT 7

The Dow Chemical Company - Linear Low Density Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

- 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.

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• Antiblock: No • Processing Aid: No • Slip: No
Agency Ratings	• ASTM D3350 PE123110A • EU No 10/2011 • HPFB (Canada) No Objection ¹ • DMF Unspecified Rating • FDA 21 CFR 177.1520(c) 3.1a
Forms	• Pellets
Processing Method	• Blow Molding

ASTM & ISO Properties ²

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.922		ASTM D792
Melt Mass-Flow Rate			ASTM D1238
190°C/2.16 kg	0.65	g/10 min	
190°C/21.6 kg	48	g/10 min	
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
122°F, 100% Igepal, F50	> 1500	hr	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	1600	psi	ASTM D638
Tensile Strength (Break)	2000	psi	ASTM D638
Tensile Elongation (Yield)	3.0	%	ASTM D638
Tensile Elongation (Break)	700	%	ASTM D638
Flexural Modulus - 2% Secant	50000	psi	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ³	120	ft-lb/in ²	ASTM D1822

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Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	49		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	108	°F	ASTM D648
Brittleness Temperature	< -105	°F	ASTM D746
Vicat Softening Temperature	210	°F	ASTM D1525
Melting Temperature (DSC)	246	°F	Internal Method
Peak Crystallization Temperature (DSC)	225	°F	Internal Method

Additional Information

Plaque molded and tested in accordance with ASTM D4976.

Notes

¹ With limitations

² Typical properties: these are not to be construed as specifications.

³ Type S