



DOW™ LLDPE DNDA-1082 NT 7

The Dow Chemical Company - Linear Low Density Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

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

DOW DNDA-1082 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.

General

Material Status	• Commercial: Active		
Availability	• Latin America	• North America	
Agency Ratings	• EU No 10/2011	• FDA 21 CFR 177.1520(c) 3.1a	• HPFB (Canada) No Objection ¹
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ²

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.935		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	155	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	2400	psi	ASTM D638
Tensile Strength (Break)	1300	psi	ASTM D638
Tensile Elongation (Yield)	8.0	%	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus - 2% Secant	83000	psi	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ³	50.0	ft·lb/in ²	ASTM D1822
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	52		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	126	°F	ASTM D648
Brittleness Temperature	-4.00	°F	ASTM D746
Vicat Softening Temperature	252	°F	ASTM D1525
Melting Temperature (DSC)	257	°F	Internal Method
Peak Crystallization Temperature (DSC)	235	°F	Internal Method

Additional Information

Plaque molded and tested in accordance with ASTM D4976.

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Notes

¹ With limitations

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

³ Type S