



DOW™ LLDPE DNDA-1055 NT 7

The Dow Chemical Company - Linear Low Density Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

DOW DNDA-1055 NT 7 Linear Low Density Polyethylene (LLDPE) Resin is produced using UNIPOL™ PE Process Technology and is intended for high-speed injection molding of thin-walled parts such as lids. This resin has been designed to have an excellent balance of processability and impact strength.

Main Characteristics:

- Excellent processability
- Good low temperature impact strength
- Balanced density and melt index

Complies with:

- U.S. FDA 21 CFR 177.1520(c)3.1a
- Canadian HPFB No Objection

Consult the regulations for complete details.

General

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

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.930		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	85	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR) 122°F, 100% Igepal, F50	3.00	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	1500	psi	ASTM D638
Tensile Elongation (Yield)	2.5	%	ASTM D638
Flexural Modulus - 2% Secant	68000	psi	ASTM D790B
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	115	°F	ASTM D648

Additional Information

Plaque molded and tested in accordance with ASTM D4976.

Notes

¹ Typical properties: these are not to be construed as specifications.