DOW™ LLDPE DNDA-8335 NT 7
Linear Low Density Polyethylene Resin

Overview

DOW DNDA-8335 NT 7 Linear Low Density Polyethylene (LLDPE) Resin is produced using 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.

- 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 177.1520 (c)3.1a
- EU Food Contact

Consult the regulations for complete details.

Additive

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

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.926	g/cm³	0.926	g/cm³	ASTM D792
Base Density [1]	0.926	g/cm³	0.926	g/cm³	Dow Method
Melt Index (190°C/2.16 kg)	35	g/10 min	35	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)					ASTM D1693
122°F (50°C), 100% Igepal, F50	10.0	hr	10.0	hr	
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Strength					ASTM D638
Yield	1600	psi	11.0	MPa	
Break	1100	psi	7.58	MPa	
Tensile Elongation					ASTM D638
Yield	2.0	%	2.0	%	
Break	75	%	75	%	
Flexural Modulus - 2% Secant	57000	psi	393	MPa	ASTM D790B
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Impact Strength [2]	90.0	ft·lb/in²	189	kJ/m²	ASTM D1822
Hardness	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Durometer Hardness (Shore D)	51		51		ASTM D2240
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Deflection Temperature Under Load					ASTM D648
66 psi (0.45 MPa), Unannealed	113	°F	45.0	°C	
Brittleness Temperature	-105	°F	-76.1	°C	ASTM D746
Vicat Softening Temperature	198	°F	92.2	°C	ASTM D1525
Melting Temperature (DSC)	253	°F	123	°C	Dow Method
Peak Crystallization Temperature (DSC)	226	°F	108	°C	Dow Method
Additional Information					
Plaque molded and tested in accordance with ASTM D4976.					

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

[1] Base density is estimated using the assumption that every 1000 ppm of antiblock in the finished product raises the density of the polymer by 0.0006 g/cm³. Base density is the estimated density of the polymer if it did not contain any antiblock.

[2] Type S

Form No. 400-00071361en
Rev: 2015-01-12

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This document is intended for use within Asia Pacific, North America

Published: 2003-10-30

Form No. 400-00071361en
Rev: 2015-01-12