



# DOW™ HDPE DMDA-8965 NT 7 High Density Polyethylene Resin

## Overview

- Injection molding
- For injection molded thin-wall food containers
- Excellent processability
- Good impact strength and rigidity
- Very narrow molecular weight distribution
- Complies with U.S. FDA 21 CFR 177.1520 (c)3.1a
- Complies with Canadian HPFB No Objection (With Limitations)
- Complies with EU, No 10/2011
- Complies with U.S. FDA DMF
- Complies with U.S. FDA 21 CFR 177.1520(c)3.2a
- Consult the regulations for complete details.

DOW DMDA-8965 NT 7 High Density Polyethylene (HDPE) Resin is produced via UNIPOL™ Process Technology from Dow and is intended for use in thinwall injection molding applications such as food containers. This resin has been designed to provide good toughness and excellent processability.

## Additive

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.952 g/cm <sup>3</sup>	0.952 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	66 g/10 min	66 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield	2500 psi	17.2 MPa	
Break	4100 psi	28.3 MPa	
Tensile Elongation			ASTM D638
Yield	1.0 %	1.0 %	
Break	10 %	10 %	
Flexural Modulus - 2% Secant	145000 psi	1000 MPa	ASTM D790B
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Impact Strength <sup>1</sup>	30.0 ft·lb/in <sup>2</sup>	63.0 kJ/m <sup>2</sup>	ASTM D1822
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	59	59	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	156 °F	68.9 °C	
Brittleness Temperature	-103 °F	-75.0 °C	ASTM D746
Vicat Softening Temperature	252 °F	122 °C	ASTM D1525
Melting Temperature (DSC)	262 °F	128 °C	Dow Method
Peak Crystallization Temperature (DSC)	241 °F	116 °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.

<sup>1</sup> Type S

