



DOW™ HDPE DMDA-8950 NT 7 High Density Polyethylene Resin

Overview

DOW™ DMDA-8950 NT 7 High Density Polyethylene (HDPE) Resin is produced via UNIPOL™ Process Technology from Dow and is intended for use in thin-wall injection molding applications such as food containers, including freezer applications. This resin has been designed to provide a good impact/stiffness balance as well as excellent processability.

Main Characteristics

- Injection molding
- For injection molded thin-wall food containers, including freezer applications
- High flow for processing ease
- Very narrow molecular weight distribution

Complies with:

- U.S. FDA 21 CFR 177.1520(c) 3.2a
- Canadian HPFB No Objection

Consult the regulations for complete details.

Additive

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.942 g/cm ³	0.942 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	50 g/10 min	50 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR) 122°F (50°C), 100% Igepal, F50	6.00 hr	6.00 hr	ASTM D1693
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ASTM D638
Yield	3030 psi	20.9 MPa	
Break	2090 psi	14.4 MPa	
Tensile Elongation			ASTM D638
Yield	9.0 %	9.0 %	
Break	37 %	37 %	
Flexural Modulus - 2% Secant	83500 psi	576 MPa	ASTM D790B
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Impact Strength ¹	43.0 ft-lb/in ²	90.4 kJ/m ²	ASTM D1822
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	-63.0 °F	-52.8 °C	ASTM D746
Melting Temperature (DSC)	260 °F	127 °C	Dow Method
Peak Crystallization Temperature (DSC)	239 °F	115 °C	Dow Method

Additional Information

Plaque molded and tested in accordance with ASTM D 4976.

Notes

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

¹ Type S

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