



DOW™ MDPE DMDA-8962 NT 7

The Dow Chemical Company - Medium Density Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

DOW DMDA-8962 NT 7 Medium Density Polyethylene (MDPE) 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 resin
- Good impact/stiffness balance for 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 (WITH LIMITATIONS)
- EU, No 10/2011
- Consult the regulations for complete details.

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Antiblock: No	• Processing Aid: No	• Slip: No
Agency Ratings	• EU No 10/2011	• FDA 21 CFR 177.1520(c) 3.2a	• HPFB (Canada) No Objection
Forms	• Pellets		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.944		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	62	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR) 122°F, 100% Igepal, F50	6.00	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	2100	psi	ASTM D638
Tensile Strength (Break)	2700	psi	ASTM D638
Tensile Elongation (Yield)	9.0	%	ASTM D638
Tensile Elongation (Break)	37	%	ASTM D638
Flexural Modulus - 2% Secant	120000	psi	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength ²	43.0	ft·lb/in ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-63.0	°F	ASTM D746
Melting Temperature (DSC)	260	°F	Internal Method
Peak Crystallization Temperature (DSC)	239	°F	Internal Method

Additional Information

Molded and tested in accordance with ASTM D4976.

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Notes

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

² Type S