DOW™ HDPE DMDA-8965 NT 7

The Dow Chemical Company - High Density Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

- 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.

General			
Material Status	• Commercial: Active		
Availability	• Latin America	• North America	
Additive	• Antiblock: No	• Processing Aid: No	• Slip: No
Agency Ratings	• DMF Unspecified Rating • EU No 10/2011	• FDA 21 CFR 177.1520(c) 3.1a • FDA 21 CFR 177.1520(c) 3.2a	• HPFB (Canada) No Objection [1]
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [2]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.954		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	66	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	2500	psi	ASTM D638
Tensile Strength (Break)	4100	psi	ASTM D638
Tensile Elongation (Yield)	1.0	%	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus - 2% Secant	145000	psi	ASTM D790B
Impact	**Nominal Value**	**Unit**	**Test Method**
Tensile Impact Strength [3]	30.0	ft·lb/in²	ASTM D1822
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	59		ASTM D2240
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	156	°F	ASTM D648
Brittleness Temperature	-103	°F	ASTM D746
Vicat Softening Temperature	252	°F	ASTM D1525
Melting Temperature (DSC)	262	°F	Internal Method

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Thermal	Nominal Value	Unit	Test Method
Peak Crystallization Temperature (DSC)	241	°F	Internal Method

Additional Information
Plaque molded and tested in accordance with ASTM D4976.

Notes

[1] With limitations

[2] Typical properties: these are not to be construed as specifications.

[3] Type S