

# DOW™ HDPE DMDA-8965 NT 7

High Density Polyethylene Resin

The Dow Chemical Company

## Message:

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 Information			
Agency Ratings	DMF not rated		
	FDA 21 CFR 177.1520(c) 3.1a		
	FDA 21 CFR 177.1520(c) 3.2a		
	HPFB (Canada) No Objection 2		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.952	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	66	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	59		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	17.2	MPa	ASTM D638
Fracture	28.3	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	1.0	%	ASTM D638
Fracture	10	%	ASTM D638
Flexural Modulus - 2% Secant	1000	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength <sup>1</sup>	63.0	kJ/m <sup>2</sup>	ASTM D1822
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	68.9	°C	ASTM D648
Brittleness Temperature	-75.0	°C	ASTM D746
Vicat Softening Temperature	122	°C	ASTM D1525
Melting Temperature (DSC)	128	°C	Internal method
Peak Crystallization Temperature (DSC)	116	°C	Internal method

#### Additional Information

根据 ASTM D 4976 进行基板模制和测试.

#### NOTE

1. Type s

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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