

# UNIVAL™ DMDA-6400 NT 7

High Density Polyethylene Resin

The Dow Chemical Company

## Message:

UNIVAL™DMDA-6400 NT 7 is a multi-purpose HDPE homopolymer used in blow molding containers for dairy products, water and fruit juice drinks. Its products have high stiffness, excellent odor and taste characteristics, and can be used to make special white plastic bottles. This resin can be used in the manufacture of food packaging and household articles with thin-walled structures by blow molding or thermoforming.

Main features:

Highest level of rigidity

High impact strength

High stacking strength

Moderate swelling

Comply with the following regulations:

U.S. Food and Drug Administration Regulation 21 CFR 177.1520(c)2.2

EU, No 10/2011

Meet the requirements of the Canadian Health Products and Food Agency (HPFB): No objections (with restrictions)

please check the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2		
	HPFB (Canada) No Objection 2		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.961	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.80	g/10 min	ASTM D1238
190°C/21.6 kg	57	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	20.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	32.0	MPa	ASTM D638
Fracture	24.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	7.0	%	ASTM D638
Fracture	1000	%	ASTM D638
Flexural Modulus - 2% Secant	1300	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength <sup>1</sup>	84.0	kJ/m <sup>2</sup>	ASTM D1822
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	76.0	°C	ASTM D648
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	131	°C	ASTM D1525
Melting Temperature (DSC)	133	°C	Internal method
Peak Crystallization Temperature (DSC)	120	°C	Internal method

#### Additional Information

根据 ASTM D 4976 进行基板模制和测试.

#### NOTE

1. Type s

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### 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

